KERAMIDA
ENVIRONMENT • HEALTH • SAFETY
AIR • LAND • WATER • WASTE

401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
keramida@keramida.com • www.keramida.com

REMEDIAL ASSESSMENT AND SOIL EXCAVATION REPORT
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

July 23, 2007

KERAMIDA
ENVIRONMENT • HEALTH • SAFETY
AIR • LAND • WATER • WASTE

401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
keramida@keramida.com • www.keramida.com

REMEDIAL ASSESSMENT AND SOIL EXCAVATION REPORT
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Robert S. Fedorchak, P.E.
Project Engineer/Project Manager

Andrew A. Gremos, L.P.G., C.H.M.M.
Vice President, Investigation and Remediation Services

July 23, 2007

REMEDIAL ASSESSMENT AND SOIL EXCAVATION REPORT
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

July 23, 2007

EXECUTIVE SUMMARY

KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by the Genuine Parts Company (Genuine Parts) to perform a Remedial Assessment (RA) and to implement a remedial action based on the conclusions identified during this RA at the former General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). The RA was conducted during the period of July 22, 2004 through June 28, 2006. The purpose of the RA was to determine if residual source materials were affecting volatile organic compound (VOC) contamination reduction in the area of monitoring well MW-153 (western source area) and MW-10-1R (eastern source area). Based on RA activities, soil excavation in the western source area was conducted during the period of August 21 through October 16, 2006 to remove residual trichloroethylene (TCE)-impacted soils.

A combined air sparging / soil vapor extraction Remediation System is used at the Site to facilitate remediation as documented in the Remediation Work Plan (RWP). However, dissolved TCE concentrations in groundwater at MW-153 and MW-10-1R and dissolved cis-1,2-dichloroethylene (cis-1,2-DCE) concentrations in groundwater at MW-153 were observed to fluctuate above and below their respective Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP) Tier II Non-Residential Cleanup Goals (remedial objectives).

REMEDIAL ASSESSMENT

KERAMIDA completed exploratory trenching and advanced soil borings in the western source area in areas not previously excavated and around the VOC and Lead soil "hot spot." KERAMIDA also advanced soil borings in the eastern source area in up-gradient locations proximal to MW-10-1R. In addition, KERAMIDA conducted quarterly sampling events of the monitoring well network during and after RA activities to monitor the western and eastern source areas.

Western Source Area

No new areas of residual source materials were found, yet VOC impacts above remedial objectives were found in soils and groundwater. Impacts were divided into three general areas located between the Northwestern and Southwestern Remediation Systems and within the Northwestern Remediation System. Based on RA and quarterly groundwater sampling results

including lithology, options to attain remedial objectives were evaluated and the excavation of impacted soils with off-Site disposal was selected along with the continued operation of the Southwestern Remediation System.

Eastern Source Area

No new areas of residual source materials were found. TCE was detected in soil in one push probe location at a concentration well below its remedial objective. All but one of the groundwater samples collected from the push probe borings contained contaminant concentrations below their respective remedial objective. One sample, near MW-10-1R, contained a TCE concentration above its remedial objective, however; a sample collected from MW-10-1R had a TCE concentration well below its remedial objective.

Based on the results from quarterly groundwater monitoring conducted following RA activities, the Eastern Remediation System was shut down on January 30, 2006, based on four consecutive quarters of groundwater VOC concentrations below remedial objectives. Groundwater VOC concentrations, for the fifth quarter since the system was shut down, have remained below their remedial objectives.

SOIL EXCAVATION ACTIVITIES

A total of 3,670 tons of TCE-impacted hazardous soil and 4,814 tons of TCE-impacted non-hazardous soil were removed and disposed of off-Site at a Subtitle "C" Landfill. The TCE-impacted soil occurrence identified in the western source area has been remediated to concentrations below remedial objectives. However, one VOC constituent, vinyl chloride, was detected at a concentration above its remedial objective in one small area. Vinyl chloride was detected from soil collected from the sidewall of the excavation at the Holt Road entrance. Due to the close proximity of the right-of-way for Holt Road further excavation was not feasible. No further remediation of soil associated with the western source area appears warranted.

Quarterly groundwater sampling events conducted in the western source area following the removal and off-Site disposal of TCE-impacted soils have indicated that groundwater VOC concentrations are below remedial objectives.

TABLES OF CONTENTS

TABLES

FIGURES

ATTACHMENTS

REMEDIAL ASSESSMENT AND SOIL EXCAVATION REPORT
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

1.0 INTRODUCTION

KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by the Genuine Parts Company (Genuine Parts) to perform a Remedial Assessment (RA) and to implement a remedial action based on the conclusions identified during this RA at the former General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). The RA was conducted during the period of July 22, 2004 through June 28, 2006. The purpose of the RA was to determine if residual source materials are affecting volatile organic compound (VOC) contamination reduction in the area of monitoring well MW-153 (western source area) and MW-10-1R (eastern source area). Based on RA activities, soil excavation in the western source area was conducted during the period of August 21 through October 16, 2006 to remove residual trichloroethylene (TCE)-impacted soils in the western source area. Regulatory closure of the Site is being administered through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP). The following report documents field activities and provides conclusions based on RA and soil remedial activities results.

2.0 SITE BACKGROUND

The subject property is located at 700 North Olin Avenue in Marion County, Indianapolis, Indiana (see Figure 1). The property is the former Site of the General Motors Corporation, AGT Plant 10. Between 1956 and 1973, BHT Corporation (BHT) operated the facility for carburetor and brake re-manufacturing. General Motors Corporation purchased the property from BHT in 1973 and used the facility for warehousing obsolete machines, tooling, and fixtures until the mid-1980s, at which time the property became part of the AGT Division. BHT became a part of Genuine Parts, through acquisition and merger, subsequent to the sale of the property to General Motors Corporation. AGT continued to use the facility for warehousing until December 1993 when the property was sold to the Allison Engine Company (AEC). AEC sold the facility to

Associated Properties, Inc. in 1998. Associated Properties, Inc. sold the facility to American Art Clay Company, Inc. in 2002 (current property owner).

A combined air sparging / soil vapor extraction Remediation System is utilized at the Site to facilitate remediation as documented in Section 8.2 of the Remediation Work Plan (RWP) dated August 16, 2004. However, dissolved TCE concentrations in groundwater at MW-153 and MW-10-1R and dissolved cis-1,2-dichloroethylene (cis-1,2-DCE) concentrations in groundwater at MW-153 were observed to fluctuate above and below their respective IDEM VRP Tier II Non-Residential Cleanup Goals (remedial objectives). A Site map showing Site features near the RA areas is presented as Figure 2.

3.0 REMEDIAL ASSESSMENT

The purpose of the RA is to determine if residual source materials are affecting contamination reduction in the area of MW-153 (western source area) and MW-10-1R (eastern source area). KERAMIDA completed exploratory trenching and advanced soil borings using a Bobcat® mounted Geoprobe® percussive rig in the western source area in areas not previously excavated and around the VOC and Lead soil "hot spot" (See section 8.3 of the RWP). KERAMIDA also advanced soil borings in the eastern source area in up-gradient locations proximal to MW-10-1R. In addition, KERAMIDA has conducted quarterly sampling events of the monitoring well network during and after RA activities to monitor the western and eastern source areas.

3.1 FIELD METHODS

Field methods used during the quarterly groundwater sampling of the monitoring well network are documented quarterly to the IDEM in Remediation System Evaluation Reports.

3.1.1 Exploratory Trenching - Western source Area

Prior to the commencement of field activities, KERAMIDA contacted Indiana Underground Plant Protection Service (IUPPS) to mark all underground public utilities at the Site. KERAMIDA performed test-trenching activities at the Site on July 22 and 23, 2004. The test trenches were excavated using a track-mounted mini-excavator. All work was supervised and completed by KERAMIDA personnel. Mr. William Wieringa, the IDEM VRP Project Manager for this facility, during this timeframe, and Mr. Bob Lewis with Genuine Parts were also present for part of the day on July 22, 2004. Exploratory trenching locations are depicted on Figure 3.

The exploratory trenches were excavated to a maximum depth of six feet with an average depth of 3.5 to 4.5 feet, which was approximately 2 to 3 feet into native material. Excavated soils were placed adjacent to their respective trenches. These soils along with trench walls and bottoms were inspected for residual source materials and were field screened using a photoionization detector (PID). At the end of each day, following inspections and soil screening, trenches were backfilled and compacted using the mini-excavator.

3.1.2 Geoprobing - Western source Area

Prior to the commencement of field activities, KERAMIDA contacted Indiana Underground Plant Protection Service (IUPPS) to mark all underground public utilities at the Site. KERAMIDA performed probing activities at the Site on August 10 and 11, 2004 (borings KB-52 through KB-59), September 14, 2004 (KB-60 through KB-65), October 3, 2005 (borings KB-71 and KB-72), and June 28, 2006 (borings KB-73 through KB-78).

Probing activities at borings KB-55/55a, KB-57/57a, KB-71, and KB-72 were conducted to evaluate remedial progress within the VOC and Lead soil "hot spot" in accordance with Section 8.4. of the RWP. Soils remedial progress within the "hot spot" is documented in Section 6.1.3 of both the July through September (2004 & 2005) Remediation System Evaluation Reports dated November 19, 2004 and December 6, 2005, respectively. Probing was completed using a Bobcat® mounted Geoprobe® percussive rig. All work was supervised and completed by KERAMIDA personnel. The locations of borings KB-52 through KB-65 and borings KB-71 through 78 are depicted on Figures 4 through 6.

All borings were advanced to a maximum depth of 16 feet below ground surface (bgs). Continuous soil cores were extracted at 4-foot intervals from each boring to obtain soil samples for soil texture identification, field screening, and possible laboratory analysis. Field screening activities included screening with a PID and an olfactory inspection. Boring logs are provided in Attachment 1.

Soil samples were collected from the borings at various depths based on field screening data. All soil samples were submitted to Heritage Environmental Services, LLC Commercial Laboratory Operations (Heritage-CLO) of Indianapolis, Indiana, for VOC analysis using U.S. Environmental Protection Agency (USEPA) SW-846 Method 8260B.

Groundwater was encountered during the sampling events in sand or a mixture of sand and gravel. Groundwater was encountered at an approximate depth of 15 feet bgs in borings KB-52 through KB-59, at an approximate depth of 12 feet bgs in borings KB-60 through KB-65 and KB-77, at an approximate depth of 11 feet bgs in boring KB-78, and at an approximate depth of 10.5 feet bgs in borings KB-73 through KB-76. Groundwater samples were collected using a peristaltic pump through temporary well points equipped with a 4-foot screens (KB-52 through KB-55) and 5-foot screens (KB-60 through KB-65) all set across the zone where groundwater was first encountered in each boring. Groundwater samples were sent to Heritage-CLO for VOC analysis using USEPA SW-846 Method 8260B.

3.1.3 Geoprobing - Eastern source Area

Prior to the commencement of field activities, KERAMIDA contacted IUPPS to mark all underground public utilities at the Site. KERAMIDA performed probing activities at the Site on April 27 and 28, 2005. Probing was completed using a Bobcat® mounted Geoprobe® percussive rig. All work was supervised and completed by KERAMIDA personnel. Mr. William Wieringa with the IDEM and Mr. Bob Lewis with Genuine Parts were also present for part of the day on April 27, 2005. The locations of borings KB-66 through KB-70 are depicted on Figure 7.

Borings were advanced to a maximum depth ranging from 16 to 36 feet bgs. Continuous soil cores were extracted at 4-foot intervals from each boring to obtain soil samples for soil texture identification, field screening, and possible laboratory analysis. Field screening activities included screening with a PID and an olfactory inspection. Boring logs are provided in Attachment 1.

KERAMIDA collected one soil sample from boring KB-70 for laboratory analysis because of apparent staining. This soil sample was submitted to Heritage-CLO for VOC analysis using USEPA SW-846 Method 8260B.

Groundwater was encountered in sand or a mixture of sand and gravel at approximate depths ranging from 10-12 feet bgs. Groundwater samples were collected from KB-66 through KB-70 using a peristaltic pump through temporary well points equipped with 4-foot screens all set across the zone where groundwater was first encountered in each boring. Additional groundwater samples from each boring, in 4-foot intervals as boring depth increased, were also collected for possible laboratory analysis. These groundwater samples were collected to

vertically identify groundwater impacts. Groundwater samples were sent to Heritage-CLO for VOC analysis using USEPA SW-846 Method 8260B. A groundwater sample was collected on March 18, 2005 from observation well OB-1. OB-1 is north of MW-10-1R and was collected to provide additional data about Site conditions.

3.2 RESULTS

Analytical results from the quarterly groundwater sampling of the monitoring well network are documented quarterly to the IDEM in Remediation System Evaluation Reports. Select analytical results from quarterly groundwater sampling events are presented in this report.

3.2.1 Western Source Area

Exploratory Trenching

During exploratory trenching activities, fill material consisting of soil and occasional automotive debris parts mostly consisting of round flexible discs were encountered near the surface. The locations of the test trenches are depicted on Figure 3. The thickness of the fill ranged from nil to approximately 4 feet. Below the fill was an intermittent silt loam layer underlain by sand and gravel deposits. No residual source materials were found during the exploratory trenching. Screening using the PID did not indicate any detectable vapors from the trenches, except for one detection of note in the trench running north-south near SVE-31. The northern end of this trench is located in the previously identified VOC and Lead soil "hot spot".

Lithology

In general, the Site consisted of loamy materials underlain by sands and gravelly sands at approximately 8 to 14 feet bgs. Some borings had small sand and clay lenses present. Fill was encountered at the top of some of the borings and ranged from nil to 4-feet in thickness. Groundwater was encountered from approximately 10.5 to 15 feet below ground surface in native sands. The sands were found generally continuous with an occasional silt lens. The sand was overlain by up to nine feet of loamy material. A detailed description of the encountered lithology is available on the boring logs presented in Attachment 1.

Analytical Results

Soil samples collected from the western source area were analyzed for VOCs. All soil analytical results are based on dry weight. Several of the borings had multiple depth intervals submitted for laboratory analysis. The following soil samples exceeded the remedial objective for TCE in

the western source area: KB-62 (4-6'), KB-62 (8-10'), KB-63 (8-10'), KB-63 (10-12'), KB-64 (8-10'), KB-64 (10-10.6'), KB-71 (8-10'), KB-72 (6-7'), KB-77 (6-8'), and KB-77 (10-12'). The sample results are presented in Table 1 and depicted on Figures 4 and 5. Copies of the laboratory analytical reports with associated chain-of-custody documentation are included in Attachment 2.

Groundwater samples collected from borings KB-52 through KB-55 and KB-60 through KB-65 were analyzed for VOCs. Several chlorinated hydrocarbons were detected in the groundwater at each of these locations. The chemicals that exceeded the remedial objectives were 1,1-dichloroethene (1,1-DCE) (KB-62), cis-1,2-DCE (KB-53, KB-54, KB-61, KB-62, and KB-65), TCE (KB-52, KB-54, and KB-60 through KB-65), and vinyl chloride (KB-53 through KB-55, KB-62, KB-63, and KB-65). The sample results are presented in Table 2 and depicted on Figure 6. Copies of laboratory analytical reports with associated chain-of-custody documentation are included in Attachment 2. Table 2 also contains historical analytical results from on-Site monitoring wells located in the vicinity of the area investigated. Figure 6 also depicts various historical analytical results from these same on-Site monitoring wells.

3.2.2 Eastern Source Area

Lithology

In general, the Site consisted of sandy clays, sandy clay loams, or clay loams for approximately the first 5-feet of depth. The underlying materials were continuous sands with occasional silt lenses. Groundwater was encountered at approximately 10 to 12 feet bgs in native sands. A detailed description of the encountered lithology is available on the boring logs presented in Attachment 1.

Analytical Results

One soil sample was collected from KB-70 at a depth of 9.75 to 10 feet bgs and was analyzed for VOCs. Analytical results are based on dry weight. No analytes were detected above their respective remedial objectives. The sample results are presented in Table 1 and a copy of the laboratory analytical report with associated chain-of-custody documentation is included in Attachment 2.

Groundwater samples were collected from borings KB-66 through KB-70 and observation point OB-1 in the area up-gradient from MW-10-1R. These samples were submitted for VOC

analysis. All samples contained detectable concentrations of TCE. Sample KB-67W (12-16) was the only sample to contain a TCE concentration above the remedial objective. The sample results are presented in Table 2 and depicted on Figure 7. A copy of the complete laboratory report along with chain-of-custody documentation is included as Attachment 3. Table 2 also contains historical analytical results from MW-10-1R and the sample results from March 2005 are also depicted on Figure 7.

3.3 CONCLUSIONS

Western Source Area

The exploratory trenching and push probe assessments in the western source area did not identify any new areas of residual source materials. However, TCE was detected in soil samples collected from six push probe locations above its remedial objective. Two of the locations, KB-63 and KB-64 are relatively near one another in the area of the Northwest Remediation System. Borings KB-62 and KB-77 are south of the MW-148 in between the Northwestern and Southwestern Remediation Systems. Data from locations intermediate to these two areas indicate that occurrence of TCE in soil above the remedial objective was not extensive. Borings KB-71 and KB-72 are located within the VOC and Lead soil "hot spot."

TCE and/or its daughter products were detected in the push probe groundwater samples at concentrations greater than their respective remedial objectives. Three of these borings, upgradient KB-63 and KB-64 and downgradient KB-65 are located around monitoring well MW-148. Based on groundwater results before and after the RA, TCE and its daughter products were at concentrations below their respective remedial objectives in MW-148. However, starting in September 2005 and through December 2006, vinyl chloride concentrations in groundwater at MW-148/R were above the remedial objective. Currently, VOC concentrations are below their respective remedial objectives in MW-148R

Groundwater TCE concentrations in MW-153 during the RA were above its remedial objective as were TCE groundwater concentrations in KB-52 located near MW-153. Groundwater monitoring at MW-153 following soil assessment activities in December 2004 and March 2005 indicated concentrations of TCE and cis-1,2-DCE below their respective remedial objectives. TCE concentrations in groundwater at MW-153 rose above the remedial objective in June 2005; however, TCE concentrations have been below remedial objectives during the past seven quarterly groundwater sampling events.

No new areas of residual source materials were found, yet VOC impacts above remedial objectives were found in soils and groundwater. Impacts were divided into three general areas: 1) Area 1 around borings KB-62 and KB-77; 2) Area 2 around borings KB-71 and KB-72 (VOC and Lead soil "hot spot"); and 3) Area 3 around borings KB-63 and KB-64. These areas are depicted on Figure 8. Based on RA and quarterly groundwater sampling results including lithology, options to attain remedial objectives were evaluated and the excavation of impacted soils with off-Site disposal was selected along with the continued operation of the Southwestern Remediation System.

Eastern Source Area

The push probe assessment in the eastern source area did not identify any new areas of residual source materials. TCE was detected in soil in one push probe location at a concentration well below its remedial objective. All but one of the groundwater samples collected from the push probe borings contained contaminant concentrations below their respective remedial objective. Sample KB-67W contained a TCE concentration of 400 ug/L versus the 260 ug/L remedial objective. A sample collected from MW-10-1R around the same time period (March 2005) contained an average TCE concentration of 130 ug/L, well below its remedial objective.

Based on the results from quarterly groundwater monitoring conducted following RA activities, the Eastern Remediation System was shut down on January 30, 2006, based on four consecutive quarters of groundwater VOC concentrations below remedial objectives. As shown in Table 2, groundwater VOC concentrations, for the fifth quarter since the system was shut down, remained below remedial objectives.

4.0 SOIL EXCAVATION ACTIVITIES

Upon review of the data from the RA and quarterly groundwater monitoring events, discussed in Section 3.3 of this report, the appropriate remedial option selected to attain remedial objectives in the western source area was to remove residual TCE-impacted soils. This section describes soil removal, confirmation sampling and results associated with TCE-impacted soil excavation activities. KERAMIDA has also conducted quarterly sampling events of the monitoring well network following excavation activities to monitor the western source area.

4.1 FIELD METHODS

Prior to initiation of work, KERAMIDA contacted IUPPS to mark all underground public utilities at the Site. KERAMIDA held daily Site safety meetings, including the review of the Site-specific health and safety plan, prior to the commencement of and during field activities.

Field methods used during the quarterly groundwater sampling of the monitoring well network are documented quarterly to the IDEM in Remediation System Evaluation Reports.

4.1.1 Soil Waste Characterization Sampling

KERAMIDA performed probing activities at the Site on June 28, 2006 to collect waste characterization samples, WCS-1 through WCS-3, to profile TCE-impacted soils in the western source area for off-Site disposal. Probing was completed using a Bobcat® mounted Geoprobe® percussive rig. All work was supervised and completed by KERAMIDA personnel. The locations of the samples are depicted on Figure 4.

Based on investigative results discussed in Section 3.0 of this report, the western source area was divided into three separate excavation areas, Area 1, Area 2 and Area 3 as depicted on Figure 8. Therefore, one soil boring was advanced within each area to a maximum depth of 16 feet bgs. Continuous soil cores were extracted at 4-foot intervals from each boring to obtain soil samples for laboratory analysis. Soil samples across the impacted interval within each boring were composited to form a waste characterization sample. Boring locations and the soil intervals sampled were determined using previous investigation results. All soil waste characterization samples were submitted to Heritage-CLO for Paint Filter by USEPA SW-846 Method 9095, Ignitability by USEPA SW-846 Method 1010, Corrosivity by USEPA SW-846 Method 1110, Reactive Cyanide by USEPA SW-846 Method 335.2, Reactive Sulfide by USEPA SW-846 Method 376.1, TCLP VOCs by USEPA SW-846 Method 1311, TCLP Polynuclear Aromatic Hydrocarbons (PNAs) by USEPA SW-846 Method 1311, and TCLP SW-846 Cadmium, Chromium, and Lead by USEPA Method 1311 analysis.

Results from the three waste characterization samples indicated that TCE-impacted soils in the area of the VOC and Lead soil "hot spot" required disposal as a non-hazardous waste and the TCE-impacted soils in the remaining two areas required disposal as hazardous wastes. These results were used to profile the TCE-impacted soils for disposal at the Heritage Environmental

Services, LLC Subtitle "C" landfill (Heritage) facility located in Roachdale, Indiana. A copy of the laboratory analytical report with associated chain-of-custody documentation is provided in Attachment 3.

As discussed in Section 4.1.2 below, the initial limits of excavation Area 1, Area 2 and Area 3 expanded, therefore, several test trenches, TT-3, TT-6, TT-7, TT-8 and TT-9 were excavated for the collection of waste characterization samples to aid in determining whether TCE-impacted soils in the expanded areas required disposal as hazardous or non-hazardous waste. Soil waste characterization samples were submitted to ENVision Laboratories, Inc. located in Indianapolis, Indiana for Paint Filter by USEPA SW-846 Method 9095, Ignitability by USEPA SW-846 Method 1010, Corrosivity by USEPA SW-846 Method 1110, TCLP VOCs by USEPA SW-846 Method 1311 and TCLP SW-846 Cadmium, Chromium, and Lead by USEPA Method 1311 analysis. Copies of laboratory analytical reports with associated chain-of-custody documentation are provided in Attachment 3.

Results were submitted and discussed with Heritage prior to these soils in these areas being excavated. Figures 8 and 9 depict the final excavation limits and areas within those limits that were disposed of as hazardous and non-hazardous wastes.

4.1.2 Soil Removal

KERAMIDA supervised the abandonment of wells, stockpiling of clean overburden materials, the removal and disposal of TCE-impacted soil, backfilling, compaction and resurfacing activities and collected confirmatory soil samples during the period from August 21 through October 16, 2006. Earth Exploration, Inc. (Earth Exploration), of Indianapolis, Indiana performed well abandonment activities and Hoosier Equipment Service, Inc. (Hoosier) of Indianapolis, Indiana and its subcontractors conducted soil stockpiling, excavation, backfilling, compaction and resurfacing activities, all under the direct supervision of Mr. Steve Cobb, Project Manager, and Mr. Robert Fedorchak, Senior Engineer/Project Manager with KERAMIDA. All excavated TCE-impacted soils were disposed of at Heritage using trucks supplied by Heritage. A photographic log of the soil removal activities is provided in Attachment 4.

Prior to activities in a proposed excavation location, any well or wells located within the proposed excavation area were abandoned. A total of three, two-inch diameter monitoring wells, MW-132, MW-147A, and MW-148 and seven two-inch SVE wells, SVE-1 through SVE-7 were

abandoned by a licensed well driller in accordance with Indiana Department of Natural Resources (IDNR) requirements. The metal protective covers and top portion of well riser were removed from the ground and disposed. The well casing was then filled with bentonite to near the ground surface. Well abandonment forms for each well were subsequently submitted to the IDNR. Well locations are depicted on Figures 8 and 9. Copies of abandonment records are provided in Attachment 5.

Following well abandonment activities and prior to the excavation of TCE-impacted soils in a particular area, clean overburden materials were removed and stockpiled. All excavated materials were stockpiled on and covered by visqueen and reused as backfill as detailed below. Two to eight feet of clean overburden materials were removed and stockpiled. The depth of the overburden material removed was based on previous sampling in areas that were previously excavated and backfilled in 2000 to remove auto parts and drums and results from soil sampling detailed in Section 3.0 of this report.

Following the excavation and stockpiling of clean overburden materials in a particular area, TCE-impacted soils were excavated and direct loaded in landfill provided trucks. Excavation activities were directed based on real-time analytical results provided by an on-Site mobile laboratory from soil samples collected during soil excavation as discussed below. Sierra Mobile Labs, Inc. was used as the on-Site laboratory. Confirmatory soil samples were then collected based on these results and submitted to Heritage-CLO.

During excavation activities, KERAMIDA advanced an additional 13 borings, KB-A through KB-M, using a Bobcat® mounted Geoprobe® percussive rig. Boring logs are provided in Attachment 1. Soils samples were also collected from excavation sidewalls and test trenches (TT-1 through TT-9). These samples were all collected to aid in determining excavation limits. All soil samples were field screened using a PID and analyzed by the on-Site mobile laboratory. Based on field screening and on-Site mobile laboratory analytical results, the initial limits of excavation Area 1, Area 2 and Area 3 expanded.

A total of 3,670 tons of TCE-impacted hazardous soil and 4,814 tons of TCE-impacted non-hazardous soil were disposed of from an excavation measuring approximately 80 feet by 195 feet with an approximate depth ranging from 12 to 14 feet. The excavation areas are depicted on Figures 8 and 9. Soil disposal documentation is provided in Attachment 6.

During removal activities, an underground concrete tile pipe was discovered within the southeastern portion of the excavation. The piping appeared to be components of a former drainage or sewer system. No visible staining or contents were associated with the piping. In addition, miscellaneous parts and a drum were found along the western portions of the excavation near the right-of-way of Holt Road. All these materials were removed and disposed of with the TCE-impacted soils.

Following soil removal and confirmatory sampling activities, the excavation was brought to grade by backfilling with the stockpiles of clean overburden materials and clean fill brought in from off-Site. Site surface was restored with topsoil/grass and asphalt as depicted on Figures 8 and 9.

4.1.3 Confirmatory Soil Sampling

KERAMIDA collected confirmatory soil samples from the excavation throughout the soil removal process. Confirmatory soil samples were collected directly from the excavator bucket, by KERAMIDA personnel, by hand using disposable nitrile gloves. New gloves were used for each individual sample collected. Confirmation soil sampling procedures were completed in general accordance with the IDEM RISC User's Guide, final dated February 15, 2001. All soil samples were submitted to Heritage-CLO for VOC analysis using USEPA SW-846 Method 8260B.

Final confirmatory soil sample locations, depths, rationale, and analysis are summarized in Table 3. Soil samples were submitted through proper chain-of-custody procedures to Heritage-CLO for analysis. Analytical results are summarized on Table 4 and depicted on Figure 9. Copies of laboratory analytical reports with associated chain-of-custody documentation are provided as Attachment 7.

A total of 29 confirmatory soil samples were collected from the sidewalls of the excavation area. No bottom samples were collected from the excavation since the bottom limits of the excavation extended into the groundwater, which was located at a range of 10 to 12 feet bgs. In addition, duplicate samples and matrix spike and matrix spike duplicates were collected for quality assurance and quality control.

4.1.4 Monitoring Well Installation Methods

Earth Exploration installed three monitoring wells, MW-132R, MW-147AR, and MW-148R, on October 10 and 11, 2006 to replace the monitoring wells previous abandoned prior to soil excavation activities. The monitoring well locations are depicted on Figures 8 and 9.

Using a 4-¼ inch hollow-stem auger, a two-inch diameter PVC well casing was installed in the boring. The monitoring wells were blind drilled and screened to the same depths as the previous monitoring wells, MW-132, MW-147A, and MW-148. The casing for MW-132R was screened from 9.5-19.5 feet bgs, MW-147AR was screened from 20-30 feet bgs, and MW-148R was screened from 10.5 to 25.5 bgs. The screen for each well was a machine cut 10-slot screen. Washed #4 quartz sand was placed around the well casing from two foot above the top of the screen to the bottom of the boring. A bentonite chip seal was placed on top of the sand to approximately one-foot below ground surface. Finally, a flush-mounted protective cover (8-inch I.D. manhole) was cemented in place. The well construction diagrams are included in Attachment 1. The wells were developed with a pump, after installation. Approximately 20 gallons of groundwater was purged from MW-132R, approximately 35 gallons of groundwater was purged from MW-147AR, and approximately 30 gallons was purged from MW-148R for monitoring well development. All soil cuttings were containerized in DOT approved 55-gallon drums and disposed of at Waste Management, Inc.'s Twin Bridges RDF located in Danville, Indiana. Soil cutting disposal documentation is provided in Attachment 6. All development water was containerized in an on-Site storage tank for disposal as documented in Section 6.1.4 of the Remediation System Evaluation Reports dated December 20, 2006 and February 19, 2007.

After MW-132R, MW-147AR, and MW-148R were installed, the top-of-casing for each monitoring well was surveyed and tied into the existing Site's monitoring well network. Groundwater level measurements were made from the top of each well casing in order to determine local groundwater flow.

4.2 RESULTS

Analytical results from the quarterly groundwater sampling of the monitoring well network are documented quarterly to the IDEM in Remediation System Evaluation Reports. Select analytical results from quarterly groundwater sampling events are presented in this report.

4.2.1 Confirmatory Soil Sampling

The VOC analytical results for the confirmation soil samples are summarized in Table 4 and are depicted in Figure 9. All soil analytical results are based on dry weight. The IDEM VRP Tier II Cleanup Goals for VOCs are provided at the bottom of the table for comparison with detected compounds. Laboratory analytical reports are provided in Attachment 7.

As shown in Table 4, VOC constituents were detected in 24 of the 29 confirmatory soil samples collected from the soil excavation. The chemical of concern during soil excavation activities, TCE, was detected in 23 of the 29 confirmatory soil samples at concentrations below its remedial objective. Vinyl chloride was detected in one confirmatory soil sample (A3-WW-5) at a concentration exceeding its remedial objective. The remaining VOC constituents detected in the confirmatory soil samples were detected at concentrations below their remedial objectives.

4.2.2 Quarterly Groundwater Sampling

Three quarterly groundwater sampling events have been conducted in the western source area following the removal and off-Site disposal of TCE-impacted soils. Groundwater VOC concentrations continue to be below the remedial objectives in MW-132R, MW-133R, MW-145, MW-147AR, MW-153 and MW-302. Vinyl chloride concentrations in groundwater at MW-148R were above its remedial objective in the first 2 events, however; the third event conducted in March 2007 indicated that the vinyl chloride concentration is below its remedial objective.

4.3 CONCLUSIONS

A total of 3,670 tons of TCE-impacted hazardous soil and 4,814 tons of TCE-impacted non-hazardous soil were removed and disposed of off-Site at a Subtitle "C" Landfill. The TCE-impacted soil occurrence identified in the western source area has been remediated to concentrations below remedial objectives. However, one VOC constituent, vinyl chloride, was detected at a concentration above its remedial objective in one small area. Vinyl chloride was detected from soil collected from the sidewall of the excavation at the Holt Road entrance. Due

to the close proximity of the right-of-way for Holt Road further excavation was not feasible. No further remediation of soil associated with the western source area appears warranted.

Quarterly groundwater sampling events conducted in the western source area following the removal and off-Site disposal of TCE-impacted soils have indicated that groundwater VOC concentrations are below remedial objectives.

5.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to whom the Client wishes to make this report available. This report and the findings, conclusions and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

6.0 LIMITATIONS

This report was prepared in accordance with KERAMIDA contractual guidelines set forth for remediation services. KERAMIDA's professional opinions contained herein are based upon the operation, maintenance, and monitoring/sampling conducted by KERAMIDA personnel during the operation of the remediation system. No other warranty is given or implied by this report.

Table 3
Final Confirmatory Sampling and Analysis Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP # 6991004
KERAMIDA Project No. 2829E

Sample Identification	Sample Location	Method	Sample Depth (ft)	Sampling Rationale	Lab Testing
KS-1	South Sidewall of Area 1 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
KS-2	South Sidewall of Area 1 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
KS-3	West Sidewall of Area 1 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
KS-4	West Sidewall of Area 1 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
KS-8	Southern Portion - East Sidewall of Area 1 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
KS-9	Southern Portion - East Sidewall of Area 1 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
KS-10	Northern Portion - East Sidewall of Area 1 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
KS-11	Northern Portion - East Sidewall of Area 1 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
A1/A3 East Wall-1	East Sidewall Between Area 1 & Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A1/A3 East Wall-2	East Sidewall Between Area 1 & Area 3 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC
A3-WW-1 (5')	Southern Portion-West sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-WW-2 (11')	Southern Portion-West sidewall of Area 3 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC
A3-WW-3 (10')	Southern Portion-West sidewall of Area 3 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
A3-WW-4	Northern Portion-West sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-WW-5	Northern Portion-West sidewall of Area 3 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
A3-WW-5 DUP	Duplicate of A3-WW-5	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
A3-NW-1	Western Portion-North sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-NW-2	Western Portion-North sidewall of Area 3 (bottom sample)	Excavator Bucket	10	Confirmation Sample - Sidewall	VOC
A3-NW-3	Eastern Portion-North Sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-NW-4	Eastern Portion-North Sidewall of Area 3 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC
A3-EW-1	Northern Portion-East Sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-EW-2	Northern Portion-East Sidewall of Area 3 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC
A3-EW-3	Southern Portion-East Sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-EW-4	Southern Portion-East Sidewall of Area 3 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC
A3-SW-1	Southeast Portion-South Sidewall of Area 3 (top sample)	Excavator Bucket	5	Confirmation Sample - Sidewall	VOC
A3-SW-2	Southeast Portion-South Sidewall of Area 3 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC

Table 3
Final Confirmatory Sampling and Analysis Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP # 6991004
KERAMIDA Project No. 2829E

Sample Identification	Sample Location	Method	Sample Depth (ft)	Sampling Rationale	Lab Testing
A2-SW-1 (6')	South Sidewall of Area 2 (top sample)	Excavator Bucket	6	Confirmation Sample - Sidewall	VOC
A2-SW-2 (11')	South Sidewall of Area 2 (bottom sample)	Excavator Bucket	11	Confirmation Sample - Sidewall	VOC
A2-WW-1 (4')	West Sidewall of Area 2 (top sample)	Excavator Bucket	4	Confirmation Sample - Sidewall	VOC
A2-WW-2 (9')	West Sidewall of Area 2 (bottom sample)	Excavator Bucket	9	Confirmation Sample - Sidewall	VOC

ft = Feet
KS = KERAMIDA Sample
(Dup) = Duplicate Sample
VOC = Volatile Organic Compounds; U.S. EPA SW 846 Method 8260B
NA = Not Applicable
QA/QC = Quality Assurrance/Quality Control

Table 1
VOCs in Subsurface Soil (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	n-Butylbenzene	sec-Butylbenzene	Carbon disulfide	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes, Total	All Other VOCs
Hot Spot																						
HS-NW	8/28/2003	6	874031	<0.042	1.66	<0.042	<0.042	66.2	0.065	0.479	0.741	1.82	4.19	1.91	0.103	<0.042	7.87	15.5	3.6	<0.017	3.1	ND
HS-EW	8/28/2003	6	874032	<0.0050	<0.0050	<0.0050	<0.0050	0.268	<0.0050	0.0058	0.0162	0.0286	0.0302	0.0319	0.0075	<0.0050	0.742	2.21	0.0672	<0.0020	[illegible]	ND
HS-SW	8/28/2003	6	874033	[illegible]	14.4	<0.250	<0.250	167	0.261	2.48	4.21	16.8	12.8	11.8	0.45	<0.250	56	98.4	22.7	<0.100	[illegible]	ND
HS-WW	8/28/2003	6	874034	<0.250	4.21	<0.250	<0.250	116	0.288	0.363	0.884	1.4	3.13	1.31	<0.250	<0.250	0.302	10.9	2.41	<0.100	[illegible]	ND
KB-55 (6')	8/11/2004	6	A671750	< 4.7	8.9	< 4.7	< 4.7	15	< 4.7	< 4.7	< 4.7	14	< 4.7	8.7	< 4.7	< 4.7	< 4.7	55	17	< 4.7	[illegible]	ND
KB-55A (8-10')	9/14/2004	8-10	A674830	< 0.005	0.11	< 0.005	0.029	14	0.041	0.31	0.22	0.18	0.46E	0.32	0.0091	0.024	< 0.005	12	0.37	[illegible]	[illegible]	ND
KB-57 (6')	8/10/2004	6	A671751	5.6	[illegible]	< 2.7	< 2.7	15	< 2.7	< 2.7	< 2.7	4.2	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	18	5.8	< 2.7	< 2.7	ND
KB-57A (10-12')	9/14/2004	10-12	A674831	< 0.005	[illegible]	[illegible]	0.11	70	0.11	0.16	0.15	0.14	0.12	0.25	< 0.005	0.017	0.037	1.6E	0.19	[illegible]	[illegible]	ND
KB-71 (8-10')	10/3/2005	8-10	A713819	5.2	2.5	<0.69	<0.69	75	<0.69	0.76	2.8	3.4	2.6	2.8	<0.69	<0.69	45	19	4.9	<0.69	[illegible]	ND
KB-71 (10-12')	10/3/2005	10-12	A713820	<0.68	<0.68	<0.68	<0.68	47	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	4.9	1.9	<0.68	<0.68	<1.4	ND
KB-72 (6-7')	10/3/2005	6-7	A713818	5.3	2.8	<0.68	<0.68	<0.68	<0.68	<0.68	1.3	4.0	1.0	2.9	<0.68	<0.68	<0.68	18	5.3	<0.68	[illegible]	ND
Outside of Hot Spot																						
KB-60 (8-10')	9/14/2004	8-10	A674832	< 0.025	< 0.025	< 0.025	< 0.025	0.12	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	[illegible]	< 0.025	< 0.025	< 0.025	< 0.025	ND
KB-61 (8-10')	9/14/2004	8-10	A674833	< 0.025	< 0.025	< 0.025	< 0.025	0.24	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	[illegible]	< 0.025	< 0.025	< 0.025	< 0.025	ND
KB-62 (4-6')	9/14/2004	4-6	A674834	< 0.025	< 0.025	< 0.025	< 0.025	0.37	0.027	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	[illegible]	< 0.025	< 0.025	< 0.025	< 0.025	ND
KB-62 (8-10')	9/14/2004	8-10	A674835	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	[illegible]	< 6.3	< 6.3	< 6.3	< 6.3	ND
KB-63 (8-10')	9/14/2004	8-10	A674836	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	[illegible]	< 2.5	< 2.5	< 2.5	< 2.5	ND
KB-63 (10-12')	9/14/2004	10-12	A674837	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	[illegible]	< 2.5	< 2.5	< 2.5	< 2.5	ND
KB-64 (4-6')	9/14/2004	4-6	A674838	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	ND
KB-64 (8-10')	9/14/2004	8-10	A674839	< 2.5	< 2.5	< 2.5	< 2.5	6.8	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	[illegible]	< 2.5	< 2.5	< 2.5	< 2.5	ND
KB-64 (10-10.6')	9/14/2004	10-10.6	A674840	< 2.5	< 2.5	< 2.5	< 2.5	24	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	[illegible]	< 2.5	< 2.5	< 2.5	< 2.5	ND
KB-65 (8-10')	9/14/2004	8-10	A674841	< 0.63	< 0.63	< 0.63	< 0.63	7	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	[illegible]	< 0.63	< 0.63	< 0.63	< 0.63	ND
KB-65 (10-11')	9/14/2004	10-11	A674842	< 0.63	< 0.63	< 0.63	< 0.63	8.8	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	ND
KB-70 (9.75-10')	4/28/2005	9.75-10	A697127	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	[illegible]	<0.005	<0.005	<0.005	<0.005	ND
KB-73 (8-10)	06/28/2006	8-10	505775684	< 0.0056	< 0.0056	< 0.011	< 0.0056	0.28	0.028	< 0.0056	< 0.0056	< 0.0056	0.0037	< 0.0056	< 0.0056	< 0.0056	[illegible]	< 0.0056	< 0.0056	< 0.0023	<0.017	ND
KB-74 (6-8)	06/28/2006	6-8	505775692	< 0.0055	< 0.0055	< 0.011	< 0.0055	0.33	0.027	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	[illegible]	< 0.0055	< 0.0055	< 0.0022	<0.016	ND
KB-75 (8-10)	06/28/2006	8-10	505775700	< 0.0055	< 0.0055	< 0.011	0.015	3.1	0.072	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	[illegible]	< 0.0055	< 0.0055	< 0.0022	<0.017	ND
KB-76 (6-8)	06/28/2006	6-8	505775718	2.8	1.4	< 0.27	< 0.14	9.3	< 0.14	0.45	0.61	< 0.14	< 0.14	1.5	< 0.14	< 0.14	[illegible]	< 0.14	< 0.14	< 0.055	<0.41	ND
KB-77 (6-8)	06/28/2006	6-8	505775726	< 0.0055	< 0.0055	< 0.011	< 0.0055	1.1	0.033	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	0.021	< 0.0055	[illegible]	< 0.0055	< 0.0055	< 0.0022	<0.016	ND
KB-77 (10-12)	06/28/2006	10-12	505775734	< 0.0055	< 0.0055	< 0.011	< 0.0055	1.9	0.045	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	[illegible]	< 0.0055	< 0.0055	< 0.0022	<0.016	ND
KB-78 (2-4)	06/28/2006	2-4	505775742	< 0.14	0.75	< 0.28	< 0.14	0.0901	< 0.14	< 0.14	0.18	1.3	0.46	0.29	< 0.14	< 0.14	[illegible]	[illegible]	[illegible]	< 0.057	<0.43	ND
KB-78 (10-11)	06/28/2006	10-11	505775759	< 0.0055	< 0.0055	< 0.011	< 0.0055	0.94	0.077	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	[illegible]	< 0.0055	< 0.0055	< 0.0022	<0.016	ND
Tier II Residential Cleanup Goals Subsurface Soil[1]				33.5[2]	30.1[2]	182[2]	0.084	17.14	3.23[2]	834.372	185[2]	441[2]	1,767.785	33.5[2]	0.227	278.926	0.076	1.59[3]	1.74[3]	0.129	1,000	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				972[2]	725[2]	1,300[2]	0.08	102.49	193[2]	1,000	185[2]	1,000[2]	10,000	972[2]	8.01	1,000	25.73	306[3]	124[3]	0.13	1,000	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260b
mg/kg = milligrams per kilogram E = Estimated
ND = Not Detected NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals Human Health Evaluation by Office of Environmental Response, July 1996.

(2) Calculated using surrogate toxicity values and Tier II equations.

(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update.

Table 2
VOCs in Shallow Groundwater (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
KB-52 (15')	8/11/2004	15	A671745	<1.0	<1.0	280	8.3	<1.0	<1.0	680	<1.0	1.3
KB-53 (15')	8/11/2004	15	A671746	<1.0	2.1	1,500	35	<1.0	<1.0	230	<1.0	13
KB-54 (15')	8/11/2004	15	A671747	<1.0	4.3	1,200	21	<1.0	<1.0	2,500	<1.0	12
KB-55 (15')	8/11/2004	15	A671748	<1.0	2.2	800	5.4	<1.0	<1.0	54	37	560
KB-60W	9/14/2004	7-12	A674844	<1.0	<1.0	69	17	<1.0	<1.0	330	<1.0	<1.0
KB-61W	9/14/2004	10-15	A674845	<1.0	5.0	1,500	34	<1.0	<1.0	1,300	<1.0	3.7
KB-62W	9/14/2004	10-15	A674846	<1.0	15	6,100	100	<1.0	<1.0	1,000	<1.0	44
KB-63W	9/14/2004	10-15	A674847	<1.0	<1.0	680	26	<1.0	<1.0	700	<1.0	13
KB-64W	9/14/2004	9.5-14.5	A674848	<5.0	<5.0	220	14	<5.0	<5.0	880	<5.0	<5.0
KB-65W	9/14/2004	9-14	A674849	<1.0	1.5	1,100	44	<1.0	<1.0	800	<1.0	54
KB-66W (12-16')	4/27/2005	12-16	A697117	<1.0	<1.0	18	<1.0	<1.0	<1.0	190	<1.0	<1.0
KB-66W (16-20')	4/27/2005	16-20	A697118	<1.0	<1.0	1	<1.0	<1.0	<1.0	160	<1.0	<1.0
KB-66W (20-24')	4/27/2005	20-24	A697119	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	<1.0	<1.0
KB-67W (12-16')	4/27/2005	12-16	A697120	<1.0	<1.0	14	<1.0	<1.0	<1.0	400	<1.0	<1.0
KB-68W (12-16')	4/27/2005	12-16	A697121	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	47	<1.0	<1.0
KB-69W (12-16')	4/28/2005	12-16	A697122	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	30	<1.0	<1.0
KB-69W (16-20')	4/28/2005	16-20	A697123	<1.0	<1.0	3.9	<1.0	<1.0	<1.0	49	<1.0	<1.0
KB-69W (20-24')	4/28/2005	20-24	A697124	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	3.4	<1.0	<1.0
KB-70W (8-12')	4/28/2005	8-12	A697125	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	93	<1.0	<1.0
KB-70W (12-16')	4/28/2005	12-16	A697126	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	230	<1.0	<1.0
MW-10-I	3/28/1994	7-17	NA	NA	NA	160*	160*	NA	NA	880	NA	<100
	10/5/1994		NA	NA	NA	ND	ND	NA	NA	1,600	NA	NA
	7/14/1995		W5070191-13	<5.0	<5.0	190	5.9	<5.0	<5.0	1,800	NA	<10
	2/5/1997		W7020074-01	<5.0	<5.0	120	<5.0	<5.0	<5.0	810	NA	<10
	11/23/1999		253788	<5.0	<5.0	180	8.3	<10	<5.0	1,000	<5.0	<5.0
	11/23/1999		253812	<5.0	<5.0	190	9.2	<10	<5.0	1,100	<5.0	<5.0
	2/29/2000		260586	<5.0	<5.0	160	6.5	<10	<5.0	960	<5.0	<5.0
	11/8/2000		280650	<5.0	<5.0	200	7.8	<10	<5.0	1,100	<5.0	<2.0
	7/19/2002		324157	<5.0	<5.0	8	<5.0	<10	<5.0	540	<5.0	<2.0
	7/19/2002		324158	<5.0	<5.0	94	<5.0	<10	<5.0	650	<5.0	<2.0
	5/7/2003		842918	<1.0	<1.0	60.9	2.6	<5.0	<1.0	305	<1.0	<1.0
	8/22/2003		872595	<1.0	<1.0	101	3.3	<5.0	<1.0	450	<1.0	<1.0
MW-10-IR	12/03/2003	7-17	503002107	<5.0	<5.0	48	<5.0	<5.0	<5.0	220	<5.0	<2.0
	12/03/2003		503002115	<5.0	<5.0	44	<5.0	<5.0	<5.0	240	<5.0	<2.0
	3/11/2004		503237240	<5.0	<5.0	8	<5.0	<5.0	<5.0	230	<5.0	<2.0
	3/11/2004		503237257	<5.0	<5.0	8	<5.0	<5.0	<5.0	230	<5.0	<2.0
	6/4/2004		503492829	<5.0	<5.0	74	<5.0	<5.0	<5.0	400	<5.0	<2.0
	6/4/2004		503492928	<5.0	<5.0	59	<5.0	<5.0	<5.0	290	<5.0	<2.0
	9/15/2004		A675212	<1.0	<1.0	99	2.9	<1.0	<1.0	500	<1.0	<1.0
	9/15/2004		A675213	<1.0	<1.0	97	2.8	<1.0	<1.0	490	<1.0	<1.0
	12/22/2004		A685836	<1.0	<1.0	85	4.5	<1.0	<1.0	540	<1.0	<1.0
	12/22/2004		A685823	<1.0	<1.0	96	3.9	<1.0	<1.0	520	<1.0	<1.0
	3/16/2005		A693396	<1.0	<1.0	14	<1.0	<1.0	<1.0	120	<1.0	<1.0
	3/16/2005		A693397	<1.0	<1.0	15	<1.0	<1.0	<1.0	140	<1.0	<1.0
	6/15/2005		A702987	<1.0	<1.0	11	<1.0	<1.0	<1.0	83	<1.0	<1.0
	6/15/2005		A702999	<1.0	<1.0	13	<1.0	<1.0	<1.0	91	<1.0	<1.0
	9/22/2005		A713013	<1.0	<1.0	12.7	<1.0	<1.0	<1.0	68.7	<1.0	<1.0
	9/22/2005		A713014	<1.0	<1.0	12.6	<1.0	<1.0	<1.0	68.8	<1.0	<1.0
	12/7/2005		A721022	<1.0	<1.0	9.5	<1.0	<1.0	<1.0	100	<1.0	<1.0
	12/7/2005		A721023	<1.0	<1.0	13	<1.0	<1.0	<1.0	110	<1.0	<1.0
	3/14/2006		A728644	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	64	<1.0	<1.0
	3/14/2006		A728645	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	59	<1.0	<1.0
	6/14/2006		A737758	<1.0	<1.0	7.7	<1.0	<1.0	<1.0	62	<1.0	<1.0
	6/14/2006		A737759	<1.0	<1.0	6.9	<1.0	<1.0	<1.0	120	<1.0	<1.0
	9/29/2006		A747976	<10	<10	13	<10	23	<10	160	<10	<10
	9/29/2006		A747977	<10	<10	16	<10	16	<10	210	<10	<10
	12/20/2006		A756766	<10	<10	14	<10	<10	<10	150	<10	<10
	12/20/2006		A756767	<10	<10	13	<10	<10	<10	150	<10	<10
	3/22/2007		A764734	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	41	<1.0	<1.0
	3/22/2007		A764735	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	45	<1.0	<1.0
MW-132	9/1992	10-20	NA	NA	NA	1,500*	1,500*	NA	NA	280	NA	1,200
	5/27/1993		69681	<20	<20	2,400	<20	<200	<20	1,900	NA	<100
	7/14/1995		W5070191-09	<5.0	<5.0	5,100	15	<5.0	<5.0	1,700	NA	600
	2/5/1997		W7020074-02	<120	<120	65,000	<120	<120	<120	15,000	NA	<250
	11/23/1999		253791	<5.0	<5.0	990	35	<10	<5.0	270	<5.0	550
	2/28/2000		260589	<5.0	<5.0	23,000	330	<10	13	2,900	<5.0	13
	7/22/2002		324190	<5.0	<5.0	270	11	<10	<5.0	110	<5.0	<2.0
	5/7/2003		842913	<1.0	<1.0	63.6	1	<5.0	<1.0	28.7	<1.0	<1.0
	8/22/2003		872596	<1.0	<1.0	136	4.4	<5.0	<1.0	40.9	<1.0	<1.0
	8/22/2003		872597	<1.0	<1.0	146	4.5	<5.0	<1.0	40.9	<1.0	<1.0
	12/03/2003		503002123	<5.0	<5.0	9	<5.0	<5.0	<5.0	23	<5.0	<2.0
	3/11/2004		503237166	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.3	<5.0	<2.0
	6/4/2004		503492647	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0	<2.0
	9/15/2004		A675220	<1.0	<1.0	32	4.5	<1.0	<1.0	15	<1.0	<1.0
	12/21/2004		A685833	<1.0	<1.0	60	7.1	<1.0	<1.0	16	<1.0	1.7
	3/16/2005		A693388	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	7.8	<1.0	<1.0
	6/14/2005		A702985	<1.0	<1.0	12	3.08	<1.0	<1.0	14	<1.0	<1.0
	9/22/2005		A713003	<1.0	<1.0	15.1	2.92	<1.0	<1.0	10.5	<1.0	<1.0
	12/6/2005		A721014	<1.0	<1.0	23	4.5	<1.0	<1.0	18	<1.0	<1.0
	3/13/2006		A728632	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/12/2006		A737743	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0
MW-132R	10/13/2006	10-20	A749072	<1.0	<1.0	73	2.3	<1.0	<1.0	62	<1.0	1.2
	12/20/2006		A756757	<1.0	<1.0	39	1.7	<1.0	<1.0	41	<1.0	6.8
	3/21/2007		A764752	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	15	<1.0	<1.0
MW-133	9/1992	8-18	NA	NA	NA	81*	81*	NA	NA	47	NA	<10
	5/27/1993		69680	<1.0	<1.0	56	1.8	<10	<1.0	24	NA	5.9
	9/11/1995		W5090134-01	<5.0	<5.0	70	<5.0	<5.0	<5.0	23	NA	<10
	2/5/1997		W7020074-03	<5.0	<5.0	100	<5.0	<5.0	<5.0	53	NA	<10
	11/23/1999		253798	<5.0	<5.0	130	<5.0	<10	<5.0	57	<5.0	7
	2/28/2000		260596	<5.0	<5.0	170	<5.0	<10	<5.0	110	<5.0	6.7
MW-133R	12/04/2003	8-18	503002131	<5.0	<5.0	46	<5.0	<5.0	<5.0	<5.0	<5.0	3.5
	3/11/2004		503237208	<5.0	<5.0	38	<5.0	<5.0	<5.0	5.3	<5.0	<2.0
	6/4/2004		503492704	<5.0	<5.0	39	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675216	<1.0	<1.0	100	4.4	<1.0	<1.0	1.9	<1.0	2.6
	12/21/2004		A685830	<1.0	<1.0	67	3.4	<1.0	<1.0	1.7	<1.0	<1.0
	3/16/2005		A693394	<1.0	<1.0	22	1.8	1.3	<1.0	1.0	<1.0	<1.0
	6/15/2005		A702990	<1.0	<1.0	33	2.11	<1.0	<1.0	1.5	<1.0	<1.0
	9/22/2005		A713008	<1.0	<1.0	41	2.75	<1.0	<1.0	1.57	<1.0	<1.0
	12/7/2005		A721020	<1.0	<1.0	45	3.1	<1.0	<1.0	1.7	<1.0	<1.0
	3/14/2006		A728641	<1.0	<1.0	25	1.8	<1.0	<1.0	1.8	<1.0	<1.0
	6/13/2006		A737755	<1.0	<1.0	29	2.3	<1.0	<1.0	1.7	<1.0	<1.0
	9/29/2006		A747979	<1.0	<1.0	36	3.0	<1.0	<1.0	2.5	<1.0	<1.0
	12/20/2006		A756762	<1.0	<1.0	28	3.3	<1.0	<1.0	2.3	<1.0	<1.0
	3/22/2007		A764731	<1.0	<1.0	6.4	1.5	<1.0	<1.0	1.3	<1.0	<1.0
MW-145	6/4/1993	17.5-27.5	69941	<5	<5	440	<5	<50	<5	9.8	NA	<20
	7/14/1995		W5070191-10	<5.0	<5.0	53	<5.0	<5	<5.0	5.6	NA	12
	2/5/1997		W7020074-05	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	43	NA	<10
	11/23/1999		253799	<5.0	<5.0	[illegible]	14	<10	<5.0	<5.0	<5.0	28
	11/23/1999		253813	<5.0	<5.0	[illegible]	13	<10	<5.0	<5.0	<5.0	58
	2/29/2000		260597	<5.0	<5.0	[illegible]	8.7	<10	<5.0	<5.0	<5.0	36 E
	11/8/2000		280652	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	18
	6/21/2001		296418	<5.0	<5.0	[illegible]	8.5	<10	<5.0	<5.0	<5.0	170
	7/22/2002		324184	<5.0	<5.0	[illegible]	7.8	<10	<5.0	<5.0	<5.0	36
	12/04/2003		503002453	<5.0	<5.0	650	<5.0	<5.0	<5.0	<5.0	<5.0	14
	12/21/2004		A685829	<1.0	<1.0	[illegible]	6.8	<1.0	<1.0	<1.0	<1.0	6.3
	12/8/2005		A721034	<1.0	<1.0	150	5.8	<1.0	<1.0	<1.0	<1.0	4.1
	12/20/2006		A756763	<10	<10	200	<10	<10	<10	<10	<10	<10
MW-147	6/4/1993	20-30	69943	<1.0	<1.0	[illegible]	<1.0	<10	<1.0	39	NA	42
	7/14/1995		W5070191-08	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	2/5/1997		W7020074-07	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	51	NA	<10
	11/23/1999		253790	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260588	<5.0	<5.0	4.3	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280685	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
MW-147A	6/21/2001	20-30	296409	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324189	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	5/7/2003		842912	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	8/22/2003		872598	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	12/03/2003		503002578	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237158	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/4/2004		503492597	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675219	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/2004		A685820	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/16/2005		A693392	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		A702984	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2005		A713025	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/7/2005		A721015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2006		A728631	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/12/2006		A737742	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-147AR	10/13/2006	20-30	A749071	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756756	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764751	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

See last page for footnotes

Table 2
VOCs in Shallow Groundwater (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-148	6/4/1993	10.5-25.5	69944	<80	<80	19,000	<80	<800	<80	4,900	NA	490
	7/14/1995		W5070191-07	<5.0	<5.0	1,400	[illegible]	<5	<5.0	410	NA	92
	2/5/1997		W7020074-08	<5.0	<5.0	73	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253792	<5.0	[illegible]	1,200	24	<10	<5.0	310	<5.0	200
	2/28/2000		260583	<5.0	<5.0	1,200	[illegible]	<10	<5.0	300	<5.0	180
	2/28/2000		260568	<5.0	<5.0	1,600	[illegible]	<10	<5.0	400	<5.0	270
	11/8/2000		280686	<5.0	<5.0	440	<5.0	<10	<5.0	190	<5.0	35
	11/8/2000		280687	<5.0	<5.0	450	<5.0	<10	<5.0	160	<5.0	39
	6/21/2001		296407	<5.0	<5.0	1,100	10	<10	<5.0	340	<5.0	50
	6/21/2001		296408	<5.0	<5.0	1,100	11	<10	<5.0	360	<5.0	50
	7/22/2002		324188	<5.0	<5.0	360	19	<10	<5.0	170	<5.0	<2.0
	5/7/2003		842914	<1.0	<1.0	23.1	1.7	<5.0	<1.0	56.5	<1.0	<1.0
	8/22/2003		872599	<1.0	<1.0	50.6	1.9	<5.0	<1.0	80.5	<1.0	<1.0
	12/03/2003		503002479	<5.0	<5.0	30	<5.0	<5.0	<5.0	100	<5.0	<2.0
	3/11/2004		503237174	<5.0	<5.0	34	<5.0	<5.0	<5.0	20	<5.0	<2.0
	6/4/2004		503492654	<5.0	<5.0	35	<5.0	<5.0	<5.0	6.4	<5.0	2.6
	9/16/2004		A675221	<1.0	<1.0	36	[illegible]	<1.0	<1.0	5.6	<1.0	[illegible]
	12/21/2004		A685831	<1.0	<1.0	38	[illegible]	<1.0	<1.0	26	<1.0	[illegible]
	3/16/2005		A693389	<1.0	<1.0	41	2.4	<1.0	<1.0	[illegible]	<1.0	5.7
	6/14/2005		A702986	<1.0	<1.0	38	2.08	<1.0	<1.0	6.5	<1.0	9.4
	9/22/2005		A713004[3]	<1.0	<1.0	79.9	5.49	<1.0	<1.0	68.8	<1.0	61.6
	12/7/2005		A721016	<1.0	<1.0	93	8.3	<1.0	<1.0	100	<1.0	120
	3/13/2006		A728633	<1.0	<1.0	200	14	<1.0	<1.0	200	<1.0	120
	6/12/2006		A737744	<1.0	<1.0	[illegible]	1.4	<1.0	<1.0	[illegible]	<1.0	[illegible]
MW-148R	10/13/2006	10.5-25.5	A749073	<1.0	<1.0	1,000	42	<1.0	<1.0	180	<1.0	140
	12/20/2006		A756758	<10	<10	[illegible]	22	<10	<10	100	<10	43
	3/21/2007		A764753	<1.0	<1.0	11	1.4	<1.0	<1.0	30	<1.0	<1.0
MW-153	7/14/1995	4.5-19.5	W5070191-02	<5.0	<5.0	980	<5.0	<5.0	<5.0	570	NA	22
	2/6/1997		W7020074-14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	NA	<10
	2/6/1997		W7020074-23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253796	<5.0	<5.0	950	19	<10	<5.0	330	<5.0	67
	2/28/2000		260594	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280691	<5.0	<5.0	4,200	37	<10	<5.0	250	<5.0	590
	6/21/2001		296404	<5.0	<5.0	16	<5.0	<10	<5.0	7.3	<5.0	<2.0
	6/21/2001		296405	<5.0	<5.0	15	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324185	<5.0	5.3	3,600	140	<10	<5.0	290	<5.0	65
	5/7/2003		842915	<1.0	3.4	3,320	50	<5.0	<1.0	384	<1.0	1.1
	5/7/2003		842916	<1.0	3.5	3,270	[illegible]	<5.0	<1.0	381	<1.0	1.1
	8/22/2003		872601	<1.0	2.1	1,590	35	<5.0	<1.0	707	<1.0	1.4
	12/03/2003		503002545	<5.0	<5.0	770	33	<5.0	<5.0	420	<5.0	<2.0
	12/03/2003		503002552	<5.0	<5.0	700	34	<5.0	<5.0	420	<5.0	<2.0
	3/11/2004		503237182	<5.0	<5.0	500	25	<5.0	<5.0	440	<5.0	<2.0
	3/11/2004		503237190	<5.0	<5.0	540	24	<5.0	<5.0	450	<5.0	<2.0
	6/4/2004		503492670	<5.0	<5.0	790	13	<5.0	<5.0	620	<5.0	<2.0
	6/4/2004		503492696	<5.0	<5.0	850	19	<5.0	<5.0	630	<5.0	<2.0
	9/15/2004		A675218	<1.0	<1.0	380	12	<1.0	<1.0	330	<1.0	<1.0
	9/15/2004		A675222	<1.0	<1.0	390	12	<1.0	<1.0	350	<1.0	<1.0
	12/22/2004		A685835	<1.0	<1.0	58	5.0	<1.0	<1.0	200	<1.0	<1.0
	12/22/2004		A685821	<1.0	<1.0	56	4.4	<1.0	<1.0	210	<1.0	<1.0
	3/16/2005		A693390	<1.0	<1.0	50	4.4	<1.0	<1.0	200	<1.0	<1.0
	3/16/2005		A693391	<1.0	<1.0	41	3.9	<1.0	<1.0	220	<1.0	<1.0
	6/15/2005		A702991	<1.0	<1.0	160	7.18	<1.0	<1.0	420	<1.0	<1.0
	6/15/2005		A702998	<1.0	<1.0	140	7.6	<1.0	<1.0	360	<1.0	<1.0
	9/22/2005		A713006	<1.0	<1.0	23.5	1.92	<1.0	<1.0	111	<1.0	<1.0
	9/22/2005		A713007[4]	<1.0	<1.0	21.7	2.25	<1.0	<1.0	109	<1.0	<1.0
	12/7/2005		A721018	<1.0	<1.0	33	2.8	<1.0	<1.0	140	<1.0	<1.0
	12/7/2005		A721019	<1.0	<1.0	30	2.9	<1.0	<1.0	160	<1.0	<1.0
	3/14/2006		A728638	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	51	<1.0	<1.0
	3/14/2006		A728639	<1.0	<1.0	6.3	<1.0	<1.0	<1.0	49	<1.0	<1.0
	6/13/2006		A737752	<1.0	<1.0	87	8	<1.0	<1.0	210	<1.0	1.3
	6/13/2006		A737753	<1.0	<1.0	92	8.1	<1.0	<1.0	200	<1.0	1.4
	9/29/2006		A747980	<1.0	<1.0	24	5	<1.0	<1.0	120	<1.0	<1.0
	9/29/2006		A747981	<1.0	<1.0	28	5.3	<1.0	<1.0	180	<1.0	<1.0
	11/21/2006		A753699	<1.0	<1.0	3.5	[illegible]	<1.0	<1.0	7.1	<1.0	<1.0
	12/20/2006		A756759	<10	<10	76	<10	<10	<10	170	<10	<10
	12/20/2006		A756760	<10	<10	86	<10	<10	<10	180	<10	<10
	3/21/2007		A764754	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764729	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-154	7/14/1995	5-20	W5070191-12	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	2/5/1997		W7020074-11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253789	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260587	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280692	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	6/21/2001		296410	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324191	<5.0	<5.0	[illegible]	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	12/03/2003		503002560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237141	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/22/2004		A685834	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		A702975	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	<1.0	<1.0	<1.0
	12/6/2005		A721013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756755	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-160	3/2/2000	3-13	260551	<5.0	<5.0	61	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280698	<5.0	<5.0	51	<5.0	<10	<5.0	<5.0	<5.0	5.4
	6/21/2001		296417	<5.0	<5.0	47	<5.0	<10	<5.0	<5.0	<5.0	3.3
	7/17/2002		324027	<1.0	<1.0	107	1.5	<5.0	<1.0	<1.0	<1.0	5.2
	7/17/2002		324028	<1.0	<1.0	111	1.5	<5.0	<1.0	<1.0	<1.0	5
	12/04/2003		503002610	<5.0	<5.0	240	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237281	<5.0	<5.0	240	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/4/2004		503493264	<5.0	<5.0	73	<5.0	<5.0	<5.0	400	<5.0	<2.0
	9/16/2004		A675223	<1.0	<1.0	180	2.5	<1.0	<1.0	<1.0	<1.0	7.2
	12/22/2004		A685818	<1.0	<1.0	120	1.8	<1.0	<1.0	<1.0	<1.0	8.7
	3/17/2005		A693399	<1.0	<1.0	190	2.8	<1.0	<1.0	<1.0	<1.0	2.7
	6/13/2005		A702969	<1.0	<1.0	56	<1.0	[illegible]	<1.0	<1.0	<1.0	9
	9/23/2005		A713022	<1.0	<1.0	55	<1.0	<1.0	<1.0	<1.0	<1.0	18
	12/6/2005		A721006	<1.0	<1.0	95	2.3	<1.0	<1.0	<1.0	<1.0	25
	4/5/2006		A730656	<1.0	<1.0	92	1.9	<1.0	<1.0	<1.0	<1.0	9.5
	6/13/2006		A737750	<1.0	<1.0	63	1.1	<1.0	<1.0	<1.0	<1.0	18
	10/13/2006		A749068	<1.0	<1.0	86	1.8	<1.0	<1.0	<1.0	<1.0	7.9
	1/19/2007		A758748	<1.0	<1.0	[illegible]	1.4	<1.0	<1.0	<1.0	<1.0	7.4
	1/19/2007		A758748	<1.0	<1.0	[illegible]	1.4	<1.0	<1.0	<1.0	<1.0	7.4
	3/22/2007		A764736	<1.0	<1.0	58	1.6	<1.0	<1.0	<1.0	<1.0	6.5
MW-161	3/2/2000	3-13	260552	<5.0	<5.0	160	<5.0	<10	<5.0	170	<5.0	8.2
	11/8/2000		280699	<5.0	79	13,000	[illegible]	<10	<5.0	4,300	<5.0	570
	6/21/2001		296416	18	36	6,700	[illegible]	<10	<5.0	2,700	<5.0	170
	7/18/2002		324103	<1.0	11.7	7,920	55.4	<5.0	<1.0	3,550	<1.0	120
	12/04/2003		503002628	<5.0	<5.0	[illegible]	<5.0	<5.0	<5.0	53	< 5.0	<2.0
	3/11/2004		503237299	<5.0	<5.0	330	<5.0	<5.0	<5.0	200	< 5.0	<2.0
	6/4/2004		503493272	<5.0	<5.0	8.1	<5.0	<5.0	<5.0	<5.0	< 5.0	<2.0
	9/16/2004		A675224	<1.0	8.4	4,500	[illegible]	<1.0	<1.0	1,900	<1.0	110
	12/22/2004		A685819	<1.0	3	1,700	16	<1.0	<1.0	660	<1.0	25
	3/17/2005		A693400	<1.0	2.7	1,500	[illegible]	<1.0	<1.0	810	<1.0	4.1
	6/13/2005		A702970	<1.0	2.0	1,200E	15	[illegible]	<1.0	370	<1.0	27
	9/26/2005		A713024	<1.0	<1.0	600	[illegible]	<1.0	<1.0	150	<1.0	10
	12/6/2005		A721007	<1.0	<1.0	7.3	<1.0	<1.0	<1.0	47	<1.0	<1.0
	12/6/2005		A721008	<1.0	<1.0	13	<1.0	<1.0	<1.0	50	<1.0	<1.0
	4/5/2006		A730657	<1.0	<1.0	21	<1.0	<1.0	<1.0	28	<1.0	<1.0
	4/5/2006		A730659	<1.0	<1.0	19	<1.0	<1.0	<1.0	26	<1.0	<1.0
	6/13/2006		A737751	<1.0	<1.0	360[5]	[illegible]	<1.0	<1.0	280	<1.0	<1.0
	10/13/2006		A749069	<1.0	3.7	2,300	[illegible]	<1.0	<1.0	1,300	<1.0	83
	10/13/2006		A749070	<1.0	4.0	2,300	[illegible]	<1.0	<1.0	1,300	<1.0	95
	1/19/2007		A758749	<1.0	<1.0	4	<1.0	<1.0	<1.0	14	<1.0	<1.0
	1/19/2007		A758750	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	14	<1.0	<1.0
	3/22/2007		A764737	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	10	<1.0	<1.0
OB-1	11/23/1999	5-15	253805	<5.0	<5.0	270	[illegible]	<10.	<5.0	870	<5.0	<5.0
	3/18/2005		A693408	<1.0	<1.0	<1.0	<1.0	[illegible]	<1.0	14	<1.0	<1.0
Tier II Residential Cleanup Goals - Groundwater (1)				0.289(2)	7	70	128(2)	6.30(2)	5	5	13.7(2)	2
Tier II Non-Residential Cleanup Goals - Groundwater (1)				46.1(2)	7	1,022	2,040(2)	381(2)	56.1	260	5,110(2)	10

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal (red)
Detected compound exceeds the VRP Tier II Residential Cleanup Goal (blue)
Detected compound is below the VRP Tier II Residential Cleanup Goal (green)

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable NS = Not Sampled
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Exceeded analytical holding time for vinyl chloride.
(4) Exceeded analytical holding time.
(5) Exceeded analytical holding time for cis-1,2-Chloroethene.

Table 4
VOCs in Confirmatory Soil Samples - Western Source Area (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	% Solids	Acetone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans- 1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes, Total	All Other VOCs
KS-1	8/23/2006	5	A744579	86	<0.023	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	0.0062	<0.0058	<0.0058	<0.0058	<0.012	ND
KS-2	8/23/2006	10	A744580	91	<0.022	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.12	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.007	<0.0055	<0.0055	<0.0055	<0.011	ND
KS-3	8/23/2006	5	A744581	93	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	ND
KS-4	8/23/2006	10	A744582	92	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.12	[illegible]	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	[illegible]	<0.0054	<0.0054	<0.0054	<0.011	ND
KS-8	8/28/2006	5	A744586	92	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.02	<0.0054	<0.0054	<0.0054	<0.011	ND
KS-9	8/28/2006	10	A744587	92	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.91	0.029	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	[illegible]	<0.0054	<0.0054	<0.0054	<0.011	ND
KS-10	8/28/2006	5	A744588	94	<0.021	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.041	<0.0053	<0.0053	<0.0053	<0.011	ND
KS-11	8/28/2006	10	A744589	92	<0.11	<0.027	<0.027	<0.027	<0.027	<0.027	3.3	[illegible]	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	0.34	<0.027	<0.027	<0.027	<0.027	ND
A1/A3 East Wall-1	9/6/2006	5	A746416	85	<0.024	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	ND
A1/A3 East Wall-2	9/6/2006	11	A746417	92	0.028	<0.0054	<0.0054	<0.0054	<0.0054	[illegible]	2.0	0.039	<0.0054	<0.0054	<0.0054	0.053	<0.0054	<0.0054	<0.0054	[illegible]	0.22	<0.0054	<0.0054	0.0056	0.0055	ND
A3-WW-3 (10')	9/15/2006	10	A747151	89	<0.022	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.35	[illegible]	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	[illegible]	<0.0056	[illegible]	<0.0056	<0.0056	<0.0056	<0.0056	ND
A3-WW-4	9/25/2006	5	A747903	86	0.14	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	0.0079	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	[illegible]	<0.0058	<0.0058	<0.0058	ND
A3-WW-5	9/25/2006	10	A747904	91	<0.022	<0.0055	<0.0055	<0.0055	0.019	[illegible]	23	0.099	<0.0055	<0.0055	<0.0055	0.0095	<0.0055	<0.0055	<0.0055	0.020	0.0093	<0.0055	<0.0055	1.3	<0.0055	ND
A3-WW-5 DUP	9/25/2006	10	A747905	90	<0.022	<0.0056	<0.0056	<0.0056	0.021	[illegible]	22	0.11	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.014	0.012	<0.0056	<0.0056	1.1	<0.0056	ND
A3-NW-1	9/25/2006	5	A747906	88	<0.023	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	ND
A3-NW-2	9/25/2006	10	A747907	92	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.075	[illegible]	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.32	<0.0054	<0.0054	<0.0054	<0.0054	ND
A3-NW-3	9/27/2006	5	A747908	93	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	ND
A3-NW-4	9/27/2006	11	A747909	92	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0083	<0.0054	<0.0054	<0.0054	<0.0054	0.90	<0.0054	<0.0054	<0.0054	<0.0054	ND
A3-EW-1	9/27/2006	5	A747910	88	<0.023	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.042	<0.0057	<0.0057	<0.0057	<0.0057	ND
A3-EW-2	9/27/2006	11	A747911	91	<0.022	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	ND
A3-EW-3	9/28/2006	5	A747912	85	<0.024	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.0069	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.014	<0.0059	<0.0059	<0.0059	<0.0059	ND
A3-EW-4	9/28/2006	11	A747913	92	<0.022	<0.0054	<0.0054	<0.0054	<0.0054	0.015	7.5	0.092	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.014	<0.0054	<0.0054	0.0082	<0.0054	ND
A3-SW-1	9/28/2006	5	A747914	90	<0.022	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.32	0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	[illegible]	<0.0056	<0.0056	<0.0056	<0.0056	ND
A3-SW-2	9/28/2006	11	A747915	91	<0.022	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	1.4	0.033	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.035	<0.0055	ND
A2-SW-1(6')	10/5/2006	6	A749076	96	<0.021	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	[illegible]	<0.0052	<0.0052	<0.0052	<0.0052	[illegible]	<0.0052	<0.0052	<0.0052	ND
A2-SW-2(11')	10/5/2006	11	A749077	91	<0.022	0.04	0.032	<0.0055	0.013	0.082	18	[illegible]	1.118	0.021	0.072	<0.0055	0.024	0.039	<0.0055	[illegible]	21	0.31	0.094	0.045	0.056	ND
A2-WW-1(4')	10/5/2006	4	A749078	91	<0.11	0.77	1.6	<0.027	<0.027	<0.027	1.9	<0.027	0.49	2.0	6.5	<0.027	0.64	4.0	0.03	0.031	<0.027	24	5.0	<0.027	1.6	ND
A2-WW-2(9')	10/5/2006	9	A749079	95	<0.021	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.13	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.040	0.0083	<0.0053	<0.0053	<0.0053	ND
Tier II Residential Cleanup Goals Subsurface Soil[1]					22.793	33.5[2]	30.1[2]	22.0[2]	182[2]	0.084	17.14	3.23[2]	834.372	185[2]	441[2]	0.0255[2]	1,767.785	33.5[2]	0.227	278.926	0.076	1.59[3]	1.74[3]	0.129	1,000	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]					136.29	972[2]	725[2]	868[2]	1,300[2]	0.08	102.49	193[2]	1,000	185[2]	1,000[2]	10.9[2]	10,000	972[2]	8.01	1,000	25.73	306[3]	124[3]	0.13	1,000	NA

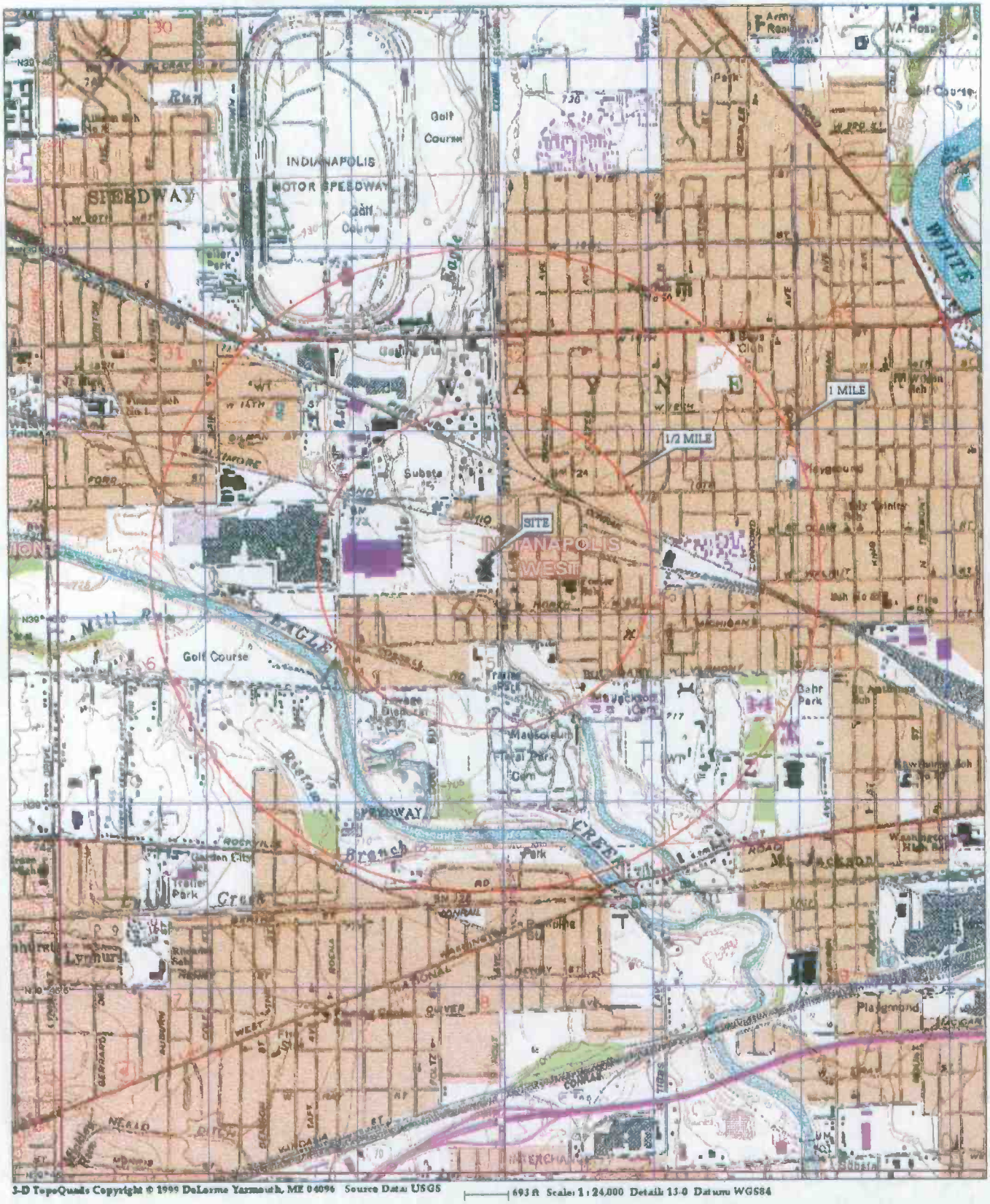
Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260b
mg/kg = milligrams per kilogram
E = Estimated
ND = Not Detected
NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996.

(2) Calculated using surrogate toxicity values and Tier II equations.

(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update.



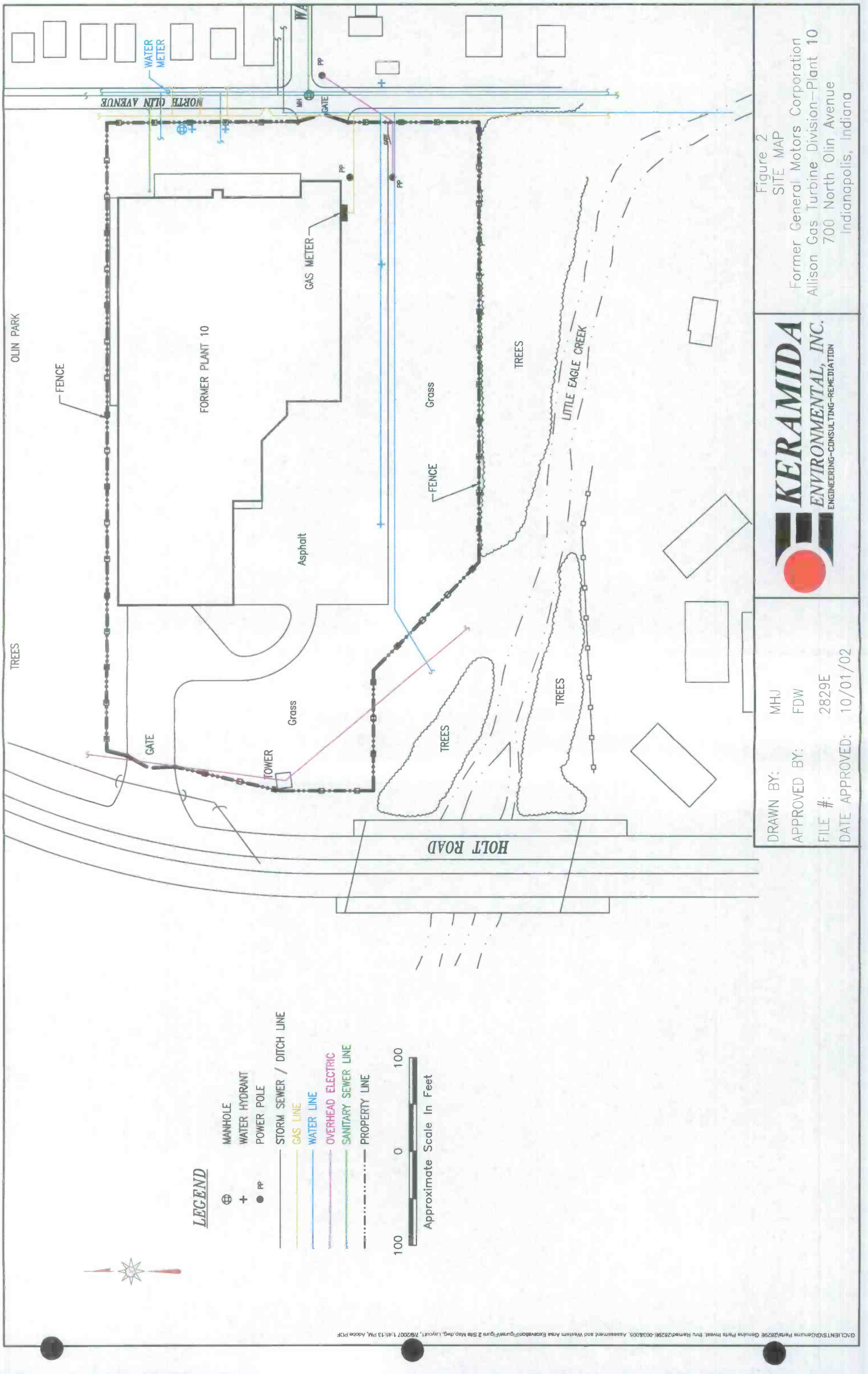
KERAMIDA Environmental, Inc.
330 North College Avenue
Indianapolis, Indiana 46202

(317) 685-6600 FAX (317) 685-6610

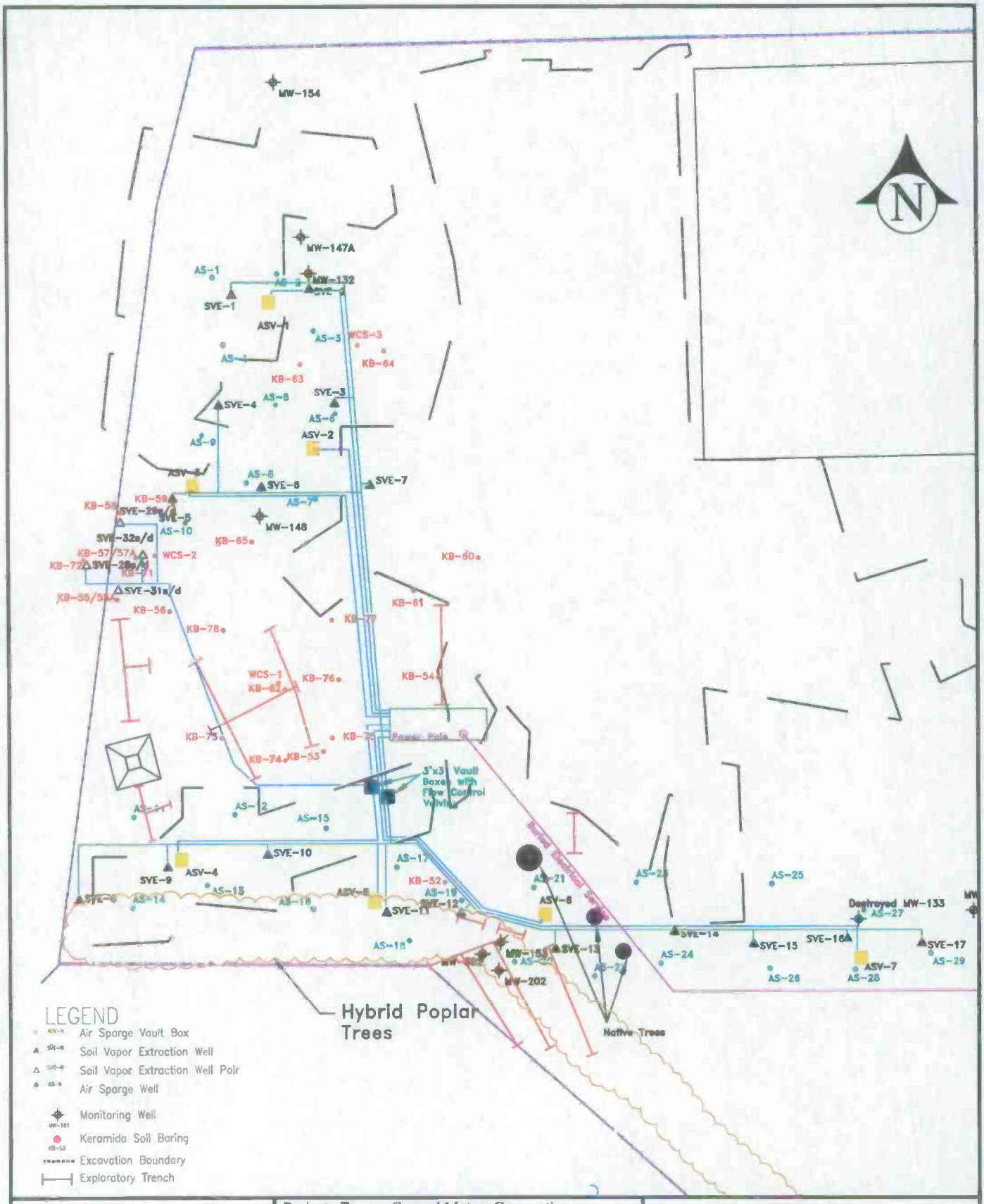
Figure 1
Site Location Map
Former General Motors Corporation
Allison Gas Turbine Plant 10
700 North Olin Avenue
Indianapolis, IN

Prepared by :	Becky Cassinelli
Approved by :	Kris Buckles
Date :	9/29/2002
Project Number:	2829E

N.



G:\CLIENTS\G\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-003&005, Assessment and Western Area Excavation\Figure#\Figure 2 Site Map.dwg, Layout1, 7/9/2007 1:45:13 PM, Adobe PDF



KERAMIDA ENVIRONMENTAL, INC
ENGINEERING–CONSULTING–REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 40'	Drawn By: J.CLARK
Project Number: 2829E-003	Approved By:
Date: March 3, 2007	File No. 2829E FIG4

Figure 3

Exploratory Trenching Location Map - Western Source Area

G:\CLIENTS\GGenuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-003\4.0\05, Assessment and Western Area Excavation\Figures\Figure 3.dwg, Layout1, 7/9/2007 3 PM, Adobe PDF

KB-77	(6-8')	(10-12')
	6/28/2006	6/28/2006
n-Butylbenzene	<0.0055	<0.0055
sec-Butylbenzene	<0.0055	<0.0055
1,1-Dichloroethylene	<0.0055	<0.0055
cis-1,2-Dichloroethylene	1.1	1.9
trans-1,2-Dichloroethene	0.033	0.075
Ethylbenzene	<0.0055	<0.0055
Isopropylbenzene	<0.0055	<0.0055
p-Isopropyltoluene	<0.0055	<0.0055
Naphtalene	<0.0055	<0.0055
n-Propylbenzene	<0.0055	<0.0055
Tetrachloroethylene	0.021	<0.0055
Trichloroethylene	36	27
1,2,4-Trimethylbenzene	<0.0055	<0.0055
1,3,5-Trimethylbenzene	<0.0055	<0.0055
All Other VOC's	ND	ND

KB-76 (6-8)	6/28/2006
n-Butylbenzene	2.8
sec-Butylbenzene	1.4
1,1-Dichloroethylene	<0.14
cis-1,2-Dichloroethylene	9.3
trans-1,2-Dichloroethene	<0.14
Ethylbenzene	0.25
Isopropylbenzene	0.61
p-Isopropyltoluene	<0.14
Naphtalene	<0.14
n-Propylbenzene	1.5
Tetrachloroethylene	<0.14
Trichloroethylene	0.095
1,2,4-Trimethylbenzene	9.0
1,3,5-Trimethylbenzene	<0.14
All Other VOC's	ND

KB-78	(2-4')	(10-11')
	6/28/2006	6/28/2006
n-Butylbenzene	<0.14	<0.0055
sec-Butylbenzene	0.75	<0.0055
1,1-Dichloroethylene	<0.14	<0.0055
cis-1,2-Dichloroethylene	0.090	0.94
trans-1,2-Dichloroethene	<0.14	0.077
Ethylbenzene	<0.14	<0.0055
Isopropylbenzene	0.18	<0.0055
p-Isopropyltoluene	1.3	<0.0055
Naphtalene	0.46	<0.0055
n-Propylbenzene	0.29	<0.0055
Tetrachloroethylene	<0.14	<0.0055
Trichloroethylene	0.16	10
1,2,4-Trimethylbenzene	2.5	<0.0055
1,3,5-Trimethylbenzene	2.9	<0.0055
All Other VOC's	ND	ND

KB-73 (8-10)	6/28/2006
n-Butylbenzene	<0.0056
sec-Butylbenzene	<0.0056
1,1-Dichloroethylene	<0.0056
cis-1,2-Dichloroethylene	0.28
trans-1,2-Dichloroethene	0.028
Ethylbenzene	<0.0056
Isopropylbenzene	<0.0056
p-Isopropyltoluene	<0.0056
Naphtalene	0.0057
n-Propylbenzene	<0.0056
Tetrachloroethylene	<0.0056
Trichloroethylene	0.18
1,2,4-Trimethylbenzene	<0.0056
1,3,5-Trimethylbenzene	<0.0056
All Other VOC's	ND

KB-74 (6-8)	6/28/2006
n-Butylbenzene	<0.0055
sec-Butylbenzene	<0.0055
1,1-Dichloroethylene	<0.0055
cis-1,2-Dichloroethylene	0.33
trans-1,2-Dichloroethene	0.027
Ethylbenzene	<0.0055
Isopropylbenzene	<0.0055
p-Isopropyltoluene	<0.0055
Naphtalene	<0.0055
n-Propylbenzene	<0.0055
Tetrachloroethylene	<0.0055
Trichloroethylene	0.31
1,2,4-Trimethylbenzene	<0.0055
1,3,5-Trimethylbenzene	<0.0055
All Other VOC's	ND

KB-75 (8-10)	6/28/2006
n-Butylbenzene	<0.0055
sec-Butylbenzene	<0.0055
1,1-Dichloroethylene	0.015
cis-1,2-Dichloroethylene	3.1
trans-1,2-Dichloroethene	0.072
Ethylbenzene	<0.0055
Isopropylbenzene	<0.0055
p-Isopropyltoluene	<0.0055
Naphtalene	<0.0055
n-Propylbenzene	<0.0055
Tetrachloroethylene	<0.0055
Trichloroethylene	4.7
1,2,4-Trimethylbenzene	<0.0055
1,3,5-Trimethylbenzene	<0.0055
All Other VOC's	ND

KB-64	(4-6')	(8-10')	(10-10.6')
	8/11/2004	9/14/2004	9/14/2004
n-Butylbenzene	<2.5	<2.5	<2.5
sec-Butylbenzene	<2.5	<2.5	<2.5
1,1-Dichloroethylene	<2.5	<2.5	<2.5
cis-1,2-Dichloroethylene	<2.5	6.4	24
trans-1,2-Dichloroethene	<2.5	<2.5	<2.5
Ethylbenzene	<2.5	<2.5	<2.5
Isopropylbenzene	<2.5	<2.5	<2.5
p-Isopropyltoluene	<2.5	<2.5	<2.5
Naphtalene	<2.5	<2.5	<2.5
n-Propylbenzene	<2.5	<2.5	<2.5
Tetrachloroethylene	<2.5	<2.5	<2.5
Trichloroethylene	<2.5	73	63
1,2,4-Trimethylbenzene	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	<2.5	<2.5	<2.5
All Other VOC's	ND	ND	ND

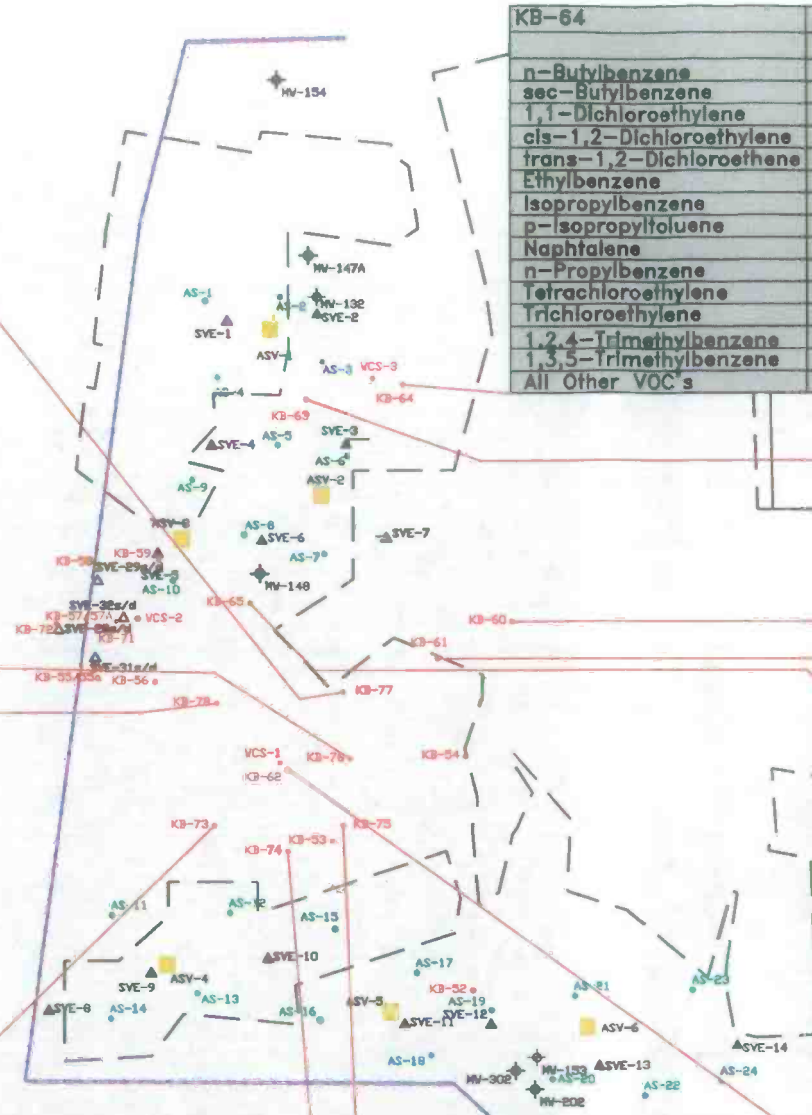
KB-63	(8-10')	(10-12')
	9/14/2004	9/14/2004
n-Butylbenzene	<2.5	<2.5
sec-Butylbenzene	<2.5	<2.5
1,1-Dichloroethylene	<2.5	<2.5
cis-1,2-Dichloroethylene	<2.5	<2.5
trans-1,2-Dichloroethene	<2.5	<2.5
Ethylbenzene	<2.5	<2.5
Isopropylbenzene	<2.5	<2.5
p-Isopropyltoluene	<2.5	<2.5
Naphtalene	<2.5	<2.5
n-Propylbenzene	<2.5	<2.5
Tetrachloroethylene	<2.5	<2.5
Trichloroethylene	67	72
1,2,4-Trimethylbenzene	<2.5	<2.5
1,3,5-Trimethylbenzene	<2.5	<2.5
All Other VOC's	ND	ND

KB-60 (8-10') 9/14/2004	
n-Butylbenzene	<0.025
sec-Butylbenzene	<0.025
1,1-Dichloroethylene	<0.025
cis-1,2-Dichloroethylene	0.12
trans-1,2-Dichloroethene	<0.025
Ethylbenzene	<0.025
Isopropylbenzene	<0.025
p-Isopropyltoluene	<0.025
Naphtalene	<0.025
n-Propylbenzene	<0.025
Tetrachloroethylene	<0.025
Trichloroethylene	0.65
1,2,4-Trimethylbenzene	<0.025
1,3,5-Trimethylbenzene	<0.025
All Other VOC's	ND

K9-65	(8-10')	(10-11')
	9/14/2004	9/14/2004
n-Butylbenzene	<0.63	<0.63
sec-Butylbenzene	<0.63	<0.63
1,1-Dichloroethylene	7	8.8
cis-1,2-Dichloroethylene	<0.63	<0.63
trans-1,2-Dichloroethene	<0.63	<0.63
Ethylbenzene	<0.63	<0.63
Isopropylbenzene	<0.63	<0.63
p-Isopropyltoluene	<0.63	<0.63
Naphtalene	<0.63	<0.63
n-Propylbenzene	<0.63	<0.63
Tetrachloroethylene	<0.63	<0.63
Trichloroethylene	1.5	<0.63
1,2,4-Trimethylbenzene	<0.63	<0.63
1,3,5-Trimethylbenzene	<0.63	<0.63
All Other VOC's	ND	ND

KB-62 (4-6')	(4-6')	(8-10')
	9/14/2004	9/14/2004
n-Butylbenzene	<0.025	<6.3
sec-Butylbenzene	<0.025	<6.3
1,1-Dichloroethylene	<0.025	<6.3
cis-1,2-Dichloroethylene	0.37	<6.3
trans-1,2-Dichloroethene	0.027	<6.3
Ethylbenzene	<0.025	<6.3
Isopropylbenzene	<0.025	<6.3
p-Isopropyltoluene	<0.025	<6.3
Naphtalene	<0.025	<6.3
n-Propylbenzene	<0.025	<6.3
Tetrachloroethylene	<0.025	<6.3
Trichloroethylene	28	71
1,2,4-Trimethylbenzene	<0.025	<6.3
1,3,5-Trimethylbenzene	<0.025	<6.3
All Other VOC's	ND	ND

KB-61 (8-10')	9/14/2004
n-Butylbenzene	<0.025
sec-Butylbenzene	<0.025
1,1-Dichloroethylene	<0.025
cis-1,2-Dichloroethylene	0.24
trans-1,2-Dichloroethene	<0.025
Ethylbenzene	<0.025
Isopropylbenzene	<0.025
p-Isopropyltoluene	<0.025
Naphtalene	<0.025
n-Propylbenzene	<0.025
Tetrachloroethylene	<0.025
Trichloroethylene	1.8
1,2,4-Trimethylbenzene	<0.025
1,3,5-Trimethylbenzene	<0.025
All Other VOC's	ND



LEGEND

- Property Boundary/Fence line
- ASV-N Air Sparge Vault Box
- SVE-N Soil Vapor Extraction Well
- SVE-N Soil Vapor Extraction Well Pair
- AS-N Air Sparge Well
- MW-155 Monitoring Well
- KB-53 Keramida Soil Boring
- Excavation Boundary
- VOC Volatile Organic Compounds
- ND Not Detected
- Contaminant concentrations exceeds VRP Tier II Non-Residential Clean Up Goal
- Contaminant concentrations exceeds VRP Tier II Residential Clean Up Goal
- Contaminant concentrations are below VRP Tier II Residential Clean Up Goal
- All results reported in milligrams per Kilogram (mg/Kg)

N

0 25 50
Scale 1: 50

KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 50'	Drawn By: J. Clark
Project Number: 2829E-003	RSF
Date: March 5, 2007	File No: 2829E Figures

Figure 4

Subsurface Soil Analytical Results Map
Western Source Area

G:\CLIENTS\GM\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-003&005, Assessment and Western ... 9:12 PM, Adobe PDF

HS-NW (6')	8/28/03
n-Butylbenzene	<0.042
sec-Butylbenzene	1.66
Carbon disulfide	<0.042
1,1-Dichloroethylene	<0.042
cis 1,2-Dichloroethylene	66.2
trans 1,2-Dichloroethylene	0.063
Ethylbenzene	0.499
Isopropylbenzene	0.741
p-Isopropylbenzene	1.82
Napthalene	4.19
n-Propylbenzene	1.91
Tetrachlorethylene	0.185
Toluene	<0.042
Trichlorethylene	7.87
1,2,4-Trimethylbenzene	15.5
1,3,5-Trimethylbenzene	3.8
Vinyl chloride	<0.017
Xylenes, Total	3.35
All Other VOC's	ND

HS-WW (6')	8/28/03
n-Butylbenzene	<0.250
sec-Butylbenzene	1.27
Carbon disulfide	<0.250
1,1-Dichloroethylene	<0.250
cis 1,2 Dichloroethylene	116
trans 1,2 Dichloroethylene	0.288
Ethylbenzene	0.365
Isopropylbenzene	0.484
p-Isopropylbenzene	1.4
Napthalene	3.13
n-Propylbenzene	1.31
Tetrachlorethylene	<0.250
Toluene	<0.250
Trichlorethylene	0.302
1,2,4-Trimethylbenzene	10.9
1,3,5-Trimethylbenzene	2.41
Vinyl chloride	<0.100
Xylenes, Total	2.36
All Other VOC's	ND

KB-72 (6-7')	10/3/05
n-Butylbenzene	5.3
sec-Butylbenzene	2.8
Carbon disulfide	<0.68
1,1-Dichloroethylene	<0.68
cis 1,2 Dichloroethylene	<0.68
trans 1,2 Dichloroethylene	<0.68
Ethylbenzene	<0.68
Isopropylbenzene	1.3
p-Isopropylbenzene	4.0
Napthalene	1.0
n-Propylbenzene	2.9
Tetrachlorethylene	<0.68
Toluene	<0.68
Trichlorethylene	<0.68
1,2,4-Trimethylbenzene	18
1,3,5-Trimethylbenzene	5.3
Vinyl chloride	<0.68
Xylenes, Total	1.7
All Other VOC's	ND

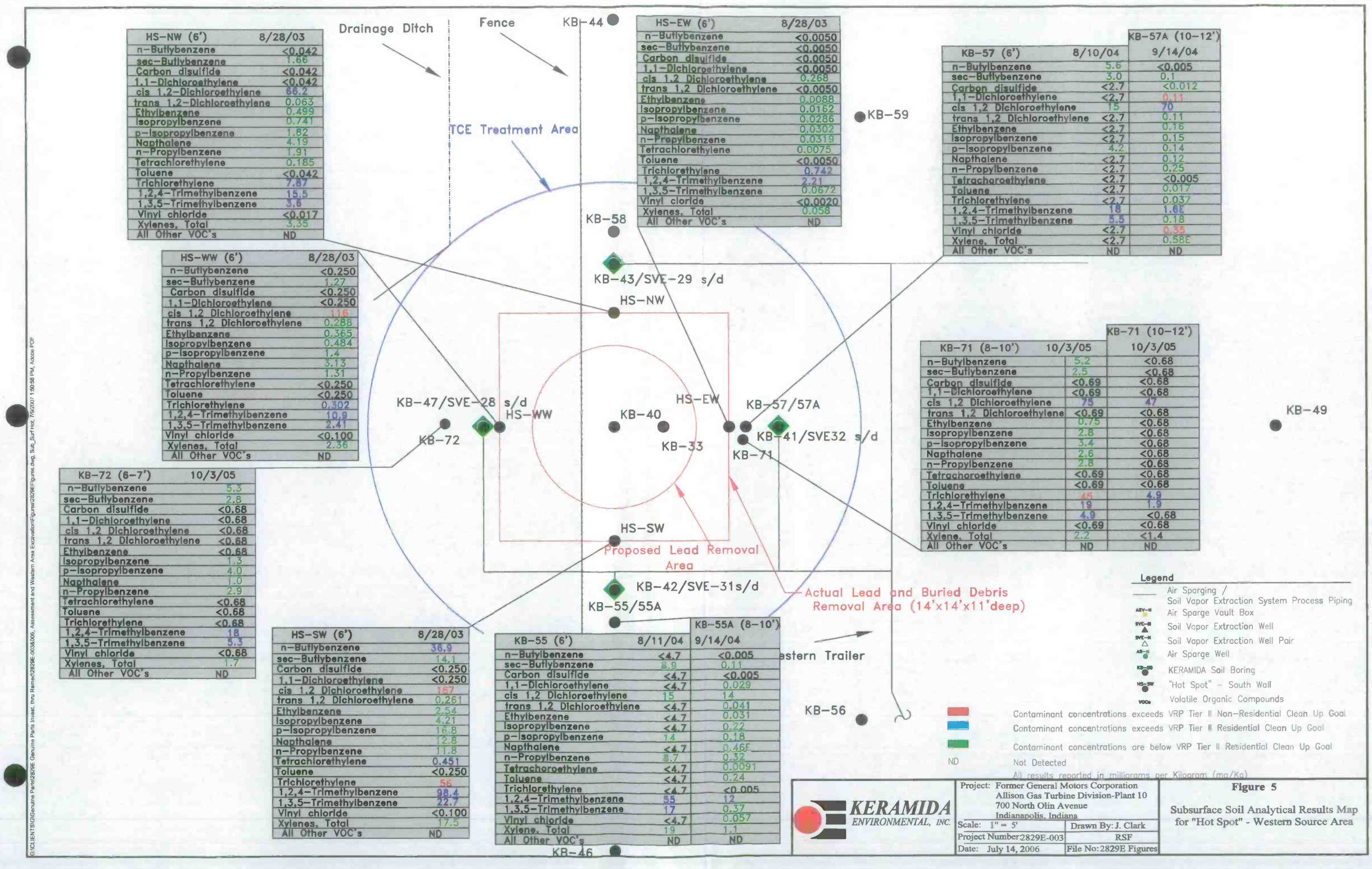
HS-SW (6')	8/28/03
n-Butylbenzene	36.9
sec-Butylbenzene	14.1
Carbon disulfide	<0.250
1,1-Dichloroethylene	<0.250
cis 1,2 Dichloroethylene	167
trans 1,2 Dichloroethylene	0.261
Ethylbenzene	2.54
Isopropylbenzene	4.21
p-Isopropylbenzene	16.8
Napthalene	12.8
n-Propylbenzene	11.8
Tetrachlorethylene	0.451
Toluene	<0.250
Trichlorethylene	56
1,2,4-Trimethylbenzene	98.4
1,3,5-Trimethylbenzene	22.7
Vinyl chloride	<0.100
Xylenes, Total	17.5
All Other VOC's	ND

HS-EW (6')	8/28/03
n-Butylbenzene	<0.0050
sec-Butylbenzene	<0.0050
Carbon disulfide	<0.0050
1,1-Dichloroethylene	<0.0050
cis 1,2 Dichloroethylene	0.268
trans 1,2 Dichloroethylene	<0.0050
Ethylbenzene	0.0088
Isopropylbenzene	0.0162
p-Isopropylbenzene	0.0286
Napthalene	0.0302
n-Propylbenzene	0.0319
Tetrachlorethylene	0.0075
Toluene	<0.0050
Trichlorethylene	0.742
1,2,4-Trimethylbenzene	2.21
1,3,5-Trimethylbenzene	0.0672
Vinyl cloride	<0.0020
Xylenes, Total	0.058
All Other VOC's	ND

KB-55 (6')	8/11/04	KB-55A (8-10') 9/14/04
n-Butylbenzene	<4.7	<0.005
sec-Butylbenzene	8.9	0.11
Carbon disulfide	<4.7	<0.005
1,1-Dichloroethylene	<4.7	0.029
cis 1,2 Dichloroethylene	15	14
trans 1,2 Dichloroethylene	<4.7	0.041
Ethylbenzene	<4.7	0.031
Isopropylbenzene	<4.7	0.22
p-Isopropylbenzene	14	0.18
Napthalene	<4.7	0.46E
n-Propylbenzene	8.7	0.32
Tetrachoroethylene	<4.7	0.0091
Toluene	<4.7	0.24
Trichlorethylene	<4.7	<0.005
1,2,4-Trimethylbenzene	55	12
1,3,5-Trimethylbenzene	17	0.37
Vinyl chloride	<4.7	0.057
Xylene, Total	19	1.1
All Other VOC's	ND	ND

KB-57 (6')	8/10/04	KB-57A (10-12') 9/14/04
n-Butylbenzene	5.6	<0.005
sec-Butylbenzene	3.0	0.1
Carbon disulfide	<2.7	<0.012
1,1-Dichloroethylene	<2.7	0.11
cis 1,2 Dichloroethylene	75	70
trans 1,2 Dichloroethylene	<2.7	0.11
Ethylbenzene	<2.7	0.16
Isopropylbenzene	<2.7	0.15
p-Isopropylbenzene	4.2	0.14
Napthalene	<2.7	0.12
n-Propylbenzene	<2.7	0.25
Tetrachoroethylene	<2.7	<0.005
Toluene	<2.7	0.017
Trichlorethylene	<2.7	0.037
1,2,4-Trimethylbenzene	18	1.6E
1,3,5-Trimethylbenzene	8.5	0.18
Vinyl chloride	<2.7	0.35
Xylene, Total	<2.7	0.58E
All Other VOC's	ND	ND

KB-71 (8-10')	10/3/05	KB-71 (10-12') 10/3/05
n-Butylbenzene	5.2	<0.68
sec-Butylbenzene	2.5	<0.68
Carbon disulfide	<0.69	<0.68
1,1-Dichloroethylene	<0.69	<0.68
cis 1,2 Dichloroethylene	75	47
trans 1,2 Dichloroethylene	<0.69	<0.68
Ethylbenzene	0.75	<0.68
Isopropylbenzene	2.8	<0.68
p-Isopropylbenzene	3.4	<0.68
Napthalene	2.6	<0.68
n-Propylbenzene	2.8	<0.68
Tetrachoroethylene	<0.69	<0.68
Toluene	<0.69	<0.68
Trichlorethylene	45	4.9
1,2,4-Trimethylbenzene	19	1.9
1,3,5-Trimethylbenzene	4.9	<0.68
Vinyl chloride	<0.69	<0.68
Xylene, Total	2.2	<1.4
All Other VOC's	ND	ND



Legend

- Air Sparging / Soil Vapor Extraction System Process Piping
- ASV-N Air Sparge Vault Box
- SVE-N Soil Vapor Extraction Well
- SVE-N Soil Vapor Extraction Well Pair
- AS-N Air Sparge Well
- KB-55 KERAMIDA Soil Boring
- HS-SW "Hot Spot" - South Wall
- VOCs Volatile Organic Compounds

Contaminant concentrations exceeds VRP Tier II Non-Residential Clean Up Goal

Contaminant concentrations exceeds VRP Tier II Residential Clean Up Goal

Contaminant concentrations are below VRP Tier II Residential Clean Up Goal

ND Not Detected

All results reported in milligrams per Kilogram (mg/Kg)

KERAMIDA ENVIRONMENTAL, INC.

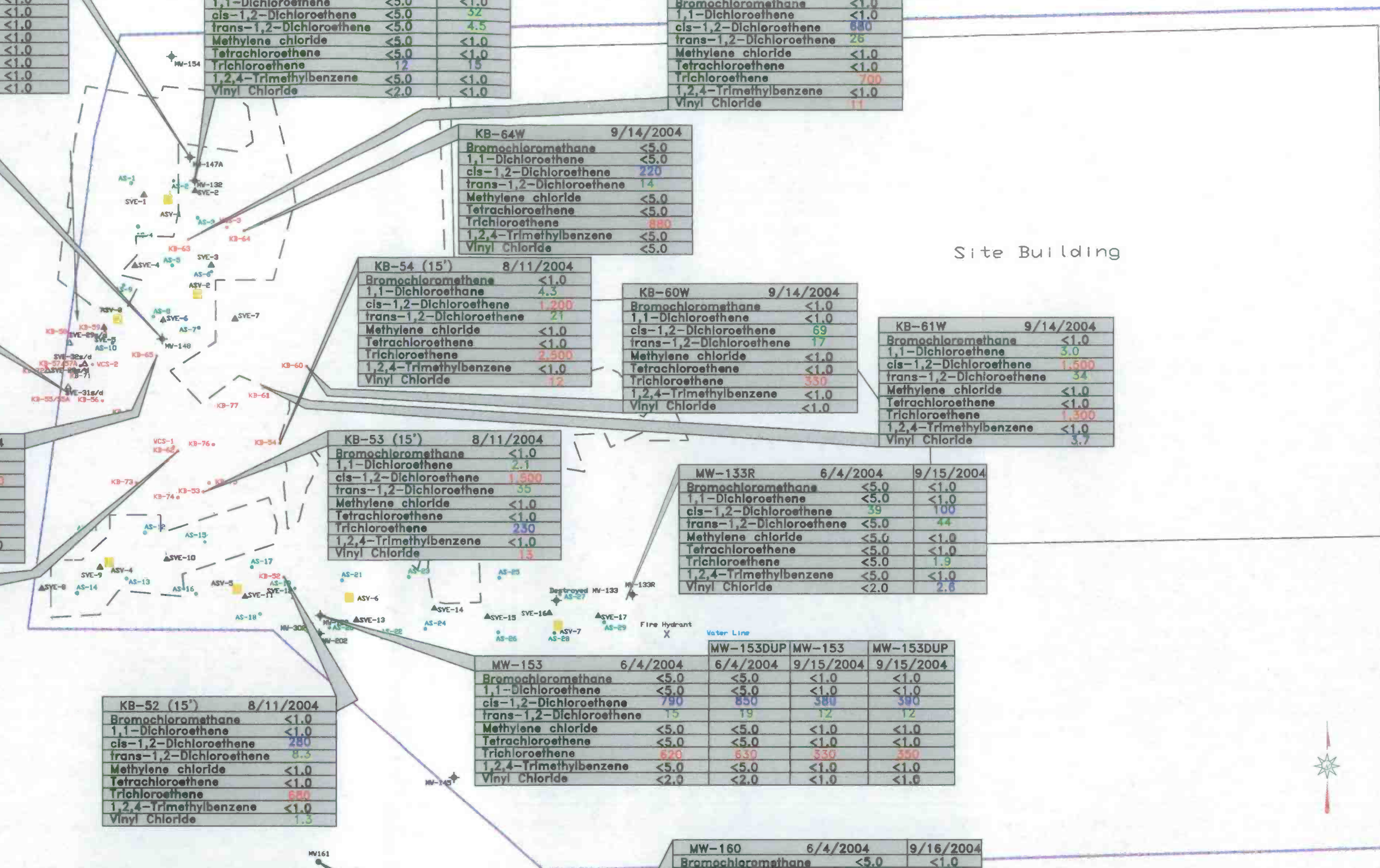
Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Scale: 1" = 5'	Drawn By: J. Clark
Project Number: 2829E-003	RSF
Date: July 14, 2006	File No: 2829E Figures

Figure 5

Subsurface Soil Analytical Results Map for "Hot Spot" - Western Source Area

G:\CLIENTS\GG\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-003&005, Assessment and Western Area Excavation\Figures\2829EFigures.dwg, Sub_Surf Hot, 7/9/2007 1:50:58 PM, Adobe PDF



MW-147A	6/4/2004	9/15/2004
Bromochloromethane	<5.0	<1.0
1,1-Dichloroethene	<5.0	<1.0
cis-1,2-Dichloroethene	<5.0	<1.0
trans-1,2-Dichloroethene	<5.0	<1.0
Methylene chloride	<5.0	<1.0
Tetrachloroethene	<5.0	<1.0
Trichloroethene	<5.0	<1.0
1,2,4-Trimethylbenzene	<5.0	<1.0
Vinyl Chloride	<2.0	<1.0

MW-132	6/4/2004	9/15/2004
Bromochloromethane	<5.0	<1.0
1,1-Dichloroethene	<5.0	<1.0
cis-1,2-Dichloroethene	<5.0	32
trans-1,2-Dichloroethene	<5.0	4.5
Methylene chloride	<5.0	<1.0
Tetrachloroethene	<5.0	<1.0
Trichloroethene	12	15
1,2,4-Trimethylbenzene	<5.0	<1.0
Vinyl Chloride	<2.0	<1.0

KB-63W	9/14/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	<1.0
cis-1,2-Dichloroethene	680
trans-1,2-Dichloroethene	26
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	700
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	11

MW-148	6/4/2004	9/16/2004
Bromochloromethane	<5.0	<1.0
1,1-Dichloroethene	<5.0	<1.0
cis-1,2-Dichloroethene	35	36
trans-1,2-Dichloroethene	<5.0	1.8
Methylene chloride	<5.0	<1.0
Tetrachloroethene	<5.0	<1.0
Trichloroethene	6.4	5.6
1,2,4-Trimethylbenzene	<5.0	<1.0
Vinyl Chloride	2.6	5.7

KB-64W	9/14/2004
Bromochloromethane	<5.0
1,1-Dichloroethene	<5.0
cis-1,2-Dichloroethene	220
trans-1,2-Dichloroethene	14
Methylene chloride	<5.0
Tetrachloroethene	<5.0
Trichloroethene	880
1,2,4-Trimethylbenzene	<5.0
Vinyl Chloride	<5.0

KB-54 (15')	8/11/2004
Bromochloromethane	<1.0
1,1-Dichloroethane	4.3
cis-1,2-Dichloroethene	1,200
trans-1,2-Dichloroethene	21
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	2,500
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	12

KB-60W	9/14/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	<1.0
cis-1,2-Dichloroethene	69
trans-1,2-Dichloroethene	17
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	330
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	<1.0

KB-61W	9/14/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	3.0
cis-1,2-Dichloroethene	1,500
trans-1,2-Dichloroethene	34
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	1,300
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	3.7

KB-55 (15')	8/11/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	2.2
cis-1,2-Dichloroethene	800
trans-1,2-Dichloroethene	5.4
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	54
1,2,4-Trimethylbenzene	37
Vinyl Chloride	560

KB-65W	9/14/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	1.5
cis-1,2-Dichloroethene	1,100
trans-1,2-Dichloroethene	44
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	800
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	54

KB-53 (15')	8/11/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	2.1
cis-1,2-Dichloroethene	1,500
trans-1,2-Dichloroethene	35
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	230
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	13

MW-133R	6/4/2004	9/15/2004
Bromochloromethane	<5.0	<1.0
1,1-Dichloroethene	<5.0	<1.0
cis-1,2-Dichloroethene	39	100
trans-1,2-Dichloroethene	<5.0	44
Methylene chloride	<5.0	<1.0
Tetrachloroethene	<5.0	<1.0
Trichloroethene	<5.0	1.9
1,2,4-Trimethylbenzene	<5.0	<1.0
Vinyl Chloride	<2.0	2.8

KB-62W	9/14/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	15
cis-1,2-Dichloroethene	6,100
trans-1,2-Dichloroethene	100
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	1,000
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	44

	MW-153	MW-153DUP	MW-153	MW-153DUP
MW-153	6/4/2004	6/4/2004	9/15/2004	9/15/2004
Bromochloromethane	<5.0	<5.0	<1.0	<1.0
1,1-Dichloroethene	<5.0	<5.0	<1.0	<1.0
cis-1,2-Dichloroethene	790	850	380	390
trans-1,2-Dichloroethene	15	19	12	12
Methylene chloride	<5.0	<5.0	<1.0	<1.0
Tetrachloroethene	<5.0	<5.0	<1.0	<1.0
Trichloroethene	620	630	330	350
1,2,4-Trimethylbenzene	<5.0	<5.0	<1.0	<1.0
Vinyl Chloride	<2.0	<2.0	<1.0	<1.0

KB-52 (15')	8/11/2004
Bromochloromethane	<1.0
1,1-Dichloroethene	<1.0
cis-1,2-Dichloroethene	280
trans-1,2-Dichloroethene	8.3
Methylene chloride	<1.0
Tetrachloroethene	<1.0
Trichloroethene	680
1,2,4-Trimethylbenzene	<1.0
Vinyl Chloride	1.3

MW-161	6/4/2004	9/16/2004
Bromochloromethane	<5.0	<1.0
1,1-Dichloroethene	<5.0	8.4
cis-1,2-Dichloroethene	5.1	4,500
trans-1,2-Dichloroethene	<5.0	41
Methylene chloride	<5.0	<1.0
Tetrachloroethene	<5.0	<1.0
Trichloroethene	<5.0	1,900
1,2,4-Trimethylbenzene	<5.0	<1.0
Vinyl Chloride	<2.0	110

MW-160	6/4/2004	9/16/2004
Bromochloromethane	<5.0	<1.0
1,1-Dichloroethene	<5.0	<1.0
cis-1,2-Dichloroethene	73	180
trans-1,2-Dichloroethene	<5.0	2.5
Methylene chloride	<5.0	<1.0
Tetrachloroethene	<5.0	<1.0
Trichloroethene	400	<1.0
1,2,4-Trimethylbenzene	<5.0	<1.0
Vinyl Chloride	<2.0	7.2

NOTE: See Table 2 for additional Historical Groundwater Analytical Results.

LEGEND
- Property Boundary/Fence Line
- Air Sparge Vault Box
- Soil Vapor Extraction Well
- Soil Vapor Extraction Well Pair
- Air Sparge Well
- Monitoring Well
- Keramida Soil Boring
- Excavation Boundary
- VOC Volatile Organic Compounds
- Contaminant concentrations exceeds VRP Tier II Non-Residential Clean Up Goal
- Contaminant concentrations exceeds VRP Tier II Residential Clean Up Goal
- Contaminant concentrations are below VRP Tier II Residential Clean Up Goal
- All results reported in milligrams per Kilogram (mg/Kg)

KERAMIDA ENVIRONMENTAL, INC.

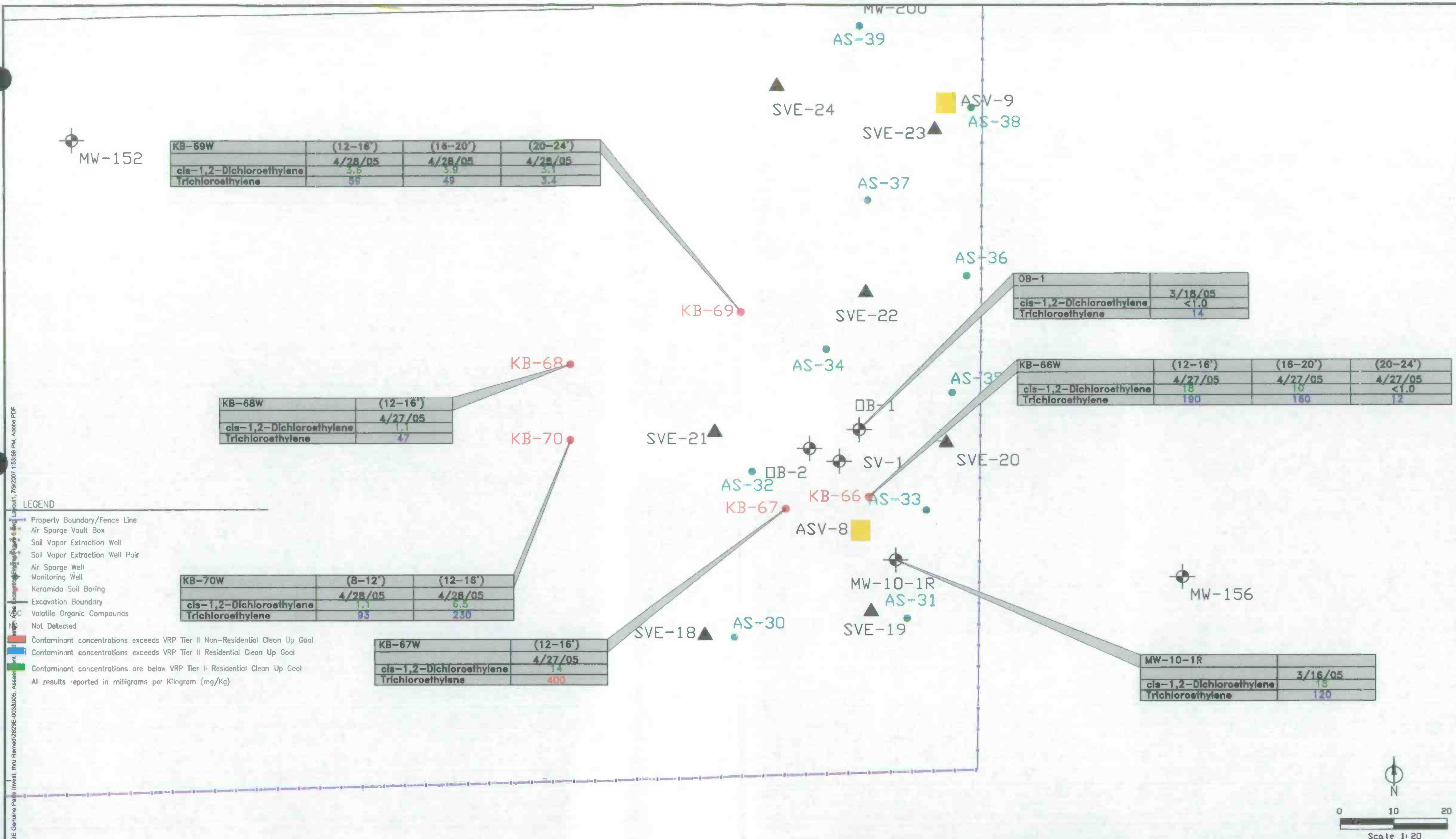
Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Scale: 1" = 50' | Drawn By: J. Clark
Project Number: 2829E-003
Date: March 4, 2007 | File No: 2829E FIG5

Figure 6

Groundwater Analytical Results Map
Western Source Area

G:\CLIENTS\...Assessment and Western Area Excavation\Figures\Figure 5.dwg, Layout1, 7/9/2007 1:52:43 PM, Adobe PDF


MW-200
AS-39
SVE-24
ASV-9
AS-38
SVE-23
MW-152
KB-69W | (12-16') | (18-20') | (20-24')
4/28/05 | 4/28/05 | 4/28/05
cis-1,2-Dichloroethylene | 3.6 | 3.9 | 3.1
Trichloroethylene | 59 | 49 | 3.4
AS-37
AS-36
OB-1 | 3/18/05
cis-1,2-Dichloroethylene | <1.0
Trichloroethylene | 14
KB-69
SVE-22
AS-34
KB-68
KB-68W | (12-16')
4/27/05
cis-1,2-Dichloroethylene | 1.1
Trichloroethylene | 47
KB-66W | (12-16') | (16-20') | (20-24')
4/27/05 | 4/27/05 | 4/27/05
cis-1,2-Dichloroethylene | 18 | 10 | <1.0
Trichloroethylene | 190 | 160 | 12
AS-35
OB-1
KB-70
SVE-21
SV-1
SVE-20
OB-2
AS-32
KB-66
AS-33
KB-67
ASV-8
MW-10-1R
AS-31
MW-156
KB-70W | (8-12') | (12-16')
4/28/05 | 4/28/05
cis-1,2-Dichloroethylene | 1.1 | 6.5
Trichloroethylene | 93 | 230
SVE-18
AS-30
SVE-19
KB-67W | (12-16')
4/27/05
cis-1,2-Dichloroethylene | 14
Trichloroethylene | 400
MW-10-1R | 3/16/05
cis-1,2-Dichloroethylene | 18
Trichloroethylene | 120
LEGEND
Property Boundary/Fence Line
Air Sparge Vault Box
Soil Vapor Extraction Well
Soil Vapor Extraction Well Pair
Air Sparge Well
Monitoring Well
Keramida Soil Boring
Excavation Boundary
VOC Volatile Organic Compounds
ND Not Detected
Contaminant concentrations exceeds VRP Tier II Non-Residential Clean Up Goal
Contaminant concentrations exceeds VRP Tier II Residential Clean Up Goal
Contaminant concentrations are below VRP Tier II Residential Clean Up Goal
All results reported in milligrams per Kilogram (mg/Kg)
N
0 10 20
Scale 1:20

KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Scale: 1" = 20'	Drawn By: CWD
Project Number: 2829E-003	
Date: March 4, 2007	File No: 2829E FIG6

Figure 7

Groundwater Analytical Results Map
Eastern Source Area

KERAMIDA Environmental, Inc.

LOG OF BORING KB-52

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: 25' NW of MW-153
Date Drilled	: 8/10/04		
Drilling Method	: Geoprobe		
Geologist	: Jason Condry		
Drilling Co.	: KEI		

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		Brown TOPSOIL w/pea gravel (10YR 4/3)			0.0		
2			1	3.0			
					0.0		
4		pea gravel to sand to Silty Clay LOAM (10YR 4/1)					
					0.0		
6			2	4.0			
					0.0		
8		Clay LOAM w/ small pebbles (10YR 4/1)					
					0.0		
10			3	2.0			
					0.0		
12							
					0.0		
14		SAND w/small pebbles	4	3.4			
		Fine SAND, wet			0.0	▼	Groundwater sample collected for analysis (12'-16')
16							
18							
20							

06-15-2005 J:\CLIENT~1\GI\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-52.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-53 (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: 80' NW of MW-153
Date Drilled	: 8/11/04		
Drilling Method	: Geoprobe		
Geologist	: Jason Condry		
Drilling Co.	: KEI		

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		Silty Clay LOAM/Topsoil (10YR 4/3)			0.0		
2			1	3.6	0.0		
		(10YR 4/2)					
4		(10YR 4/3)			0.0		
6		Clay LOAM (10YR 4/2)	2	4.0	0.0		
8		1" gravel seam			0.0		
10		Silty CLAY, grey (10YR 3/1)	3	4.0	0.0		
12		SAND AND GRAVEL			0.0		
14			4	4.0			
		wet			0.0	▼	Groundwater sample collected for analysis (12'-16')
16							
18							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-53.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-54

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/10/04
Drilling Method : Geoprobe
Geologist : Jason Condry
Drilling Co. : KEI

General Location : 10' N of SW/NW
: system trailer

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		TOPSOIL/gravel mix (10YR 4/3)			0.0		
2			1	3.2	0.0		
4		SAND			0.0		
6		Silty LOAM (10YR 4/3)	2	3.8	0.0		
		(10YR 3/2)			0.0		
8		Fine SAND w/a little gravel			0.0		
10		SAND AND CLAY mix (10YR 3/1)	3	4.0	0.0		
12		Clay LOAM w/sand and gravel					
		w/sand (10YR 4/3)			0.0		
14		Fine SAND (10YR 3/1)	4	4.0			
16		SAND AND GRAVEL, wet			0.0	▼	Groundwater sample collected for analysis (12'-16')
18							
20							

06-15-2005 J:\CLIENT~1\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-54.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-55

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/11/04
Drilling Method : Geoprobe
Geologist : Jason Condry
Drilling Co. : KEI

General Location : 2' S of SVE 31 s/d

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		Silty Clay LOAM Topsoil (10YR 4/3)					
					0.0		
2			1	3.4			
					0.0		
		0.5' sand mix seam					
4		(10YR 4/3)					
					34.5		
6		1' sand and gravel seam	2	3.4			Soil sample collected for analysis (6')
		(10YR 3/1)			236.7		
8		CLAY, stiff (10YR 3/1)					
					742.5		
10			3	3.2			
		SAND mix (10YR 3/1)			498.7		
12		Silty Clay LOAM (10YR 4/3)					
					296.3		
		Silty CLAY (10YR 3/1)					
14		SAND AND GRAVEL	4	3.6			
		wet			46.2	▼	Groundwater sample collected for analysis (12'-16')
16							
18							
20							

06-15-2005 J:\CLIENT~1\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-55.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-55a

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/14/04
Drilling Method : Geoprobe
Geologist : SRC
Drilling Co. : KEI

General Location : 0.5' south of KB-55

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		Blind Drilled (0-8')			NA		
			1	NA			
					NA		
4							
					NA		
			2	NA			
					NA		
8		SAND (fine), very gravelly (fine), moist, loose, yellowish brown (10 YR 5/6); w/ silt loam, moist, firm, dark gray (2.5 Y 4/0)					Soil sample collected for lab analysis (8-10')
		SILT LOAM, slightly gravelly (fine), moist, firm, dark gray (2.5 Y 4/0), solvent odor present	3	2	989.1		
12							
16							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-55A.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-56

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/10/04
Drilling Method : Geoprobe
Geologist : Jason Condry
Drilling Co. : KEI
General Location : 15' E, 8' S of SVE 31 s/d

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		TOPSOIL w/clay tile debris (10YR 4/3)			0.0		
2			1	3.2	0.0		
4					0.0		
6		Silty Clay LOAM	2	3.6			
		SAND AND GRAVEL mix			0.0		
8		SAND					
		Silty Clay LOAM (10YR 4/3)			6.8		
10		CLAY, grey (10YR 3/1-3/2)	3	4.0			
		SAND AND GRAVEL			240.6		
12							
		Silty CLAY			168.2		
14		SAND AND GRAVEL	4	4.0			
		wet			55.6	▼	
16							
18							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-56.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-57

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/10/04
Drilling Method : Geoprobe
Geologist : Jason Condry
Drilling Co. : KEI

General Location : 2' W of SVE 32 s/d

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		TOPSOIL, brown (10YR 4/3)			0.0		
2			1	4.0	0.0		
4		Silty Clay LOAM (10YR 4/3)			11.6		
6			2	3.4	49.0		Soil sample collected for analysis (6')
8					63.5		
10		gravel mix at 11' (10YR 3/1-3/2)	3	4.0	343-650		
12		SAND AND GRAVEL (10YR 4/3)					
		Clay LOAM			400-500		
14		SAND AND GRAVEL, wet	4	3.0	400-500	▼	
16							
18							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-57.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-57a

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/14/04
Drilling Method : Geoprobe
Geologist : SRC
Drilling Co. : KEI

General Location : 0.5' west of KB-57

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		Blind Drilled (0-10')	1	NA	NA		
4			2	NA	NA		
8			3	NA	NA		
12		SILT LOAM, slightly gravelly (fine), moist to wet (non-satiated), dark gray (2.5 Y4/0)	4	2	641		Soil sample collected for lab analysis (10-12')
		SAND, slightly gravelly (fine), wet, olive gray (5 Y 4/2), black staining and solvent odor present SAND (fine), extremely gravelly (fine), moist, loose, olive gray (5 Y 4/2)					
16							
20							

06-15-2005 J:\CLIENT~1\GI\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-57A.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-58

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: 2' N of SVE 29 s/d
Date Drilled	: 8/10/04		
Drilling Method	: Geoprobe		
Geologist	: Jason Condry		
Drilling Co.	: KEI		

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		TOPSOIL (10YR 4/3)			0.0		
2		Silty Clay LOAM w/gravel	1	3.2	0.0		
4		SAND AND GRAVEL (10YR 4/3)			18.3		
6		Silty CLAY	2	3.2			
8		SAND AND GRAVEL			69.9		
10		Clay LOAM, grey (10YR 3/1-3/2)	3	3.0	148.0		
12		SAND AND GRAVEL			210.0		
14		Clay LOAM (10YR 3/1)	4	4.0	22.5		
16		as above, w/sand, wet			0.0	▼	
18							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-58.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-59

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID	: 2829E
Date Drilled	: 8/10/04
Drilling Method	: Geoprobe
Geologist	: Jason Condry
Drilling Co.	: KEI
General Location	: 15' E, 8' N of SVE 29 s/d

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	FID ppm	Water Levels	REMARKS
0		TOPSOIL w/gravel (10YR 4/3)			0.0		
2		as above (10YR 5/2)	1	3.6			
		as above w/clay tile debris (10YR 3/3)			0.0		
4		as above w/gravel (10YR 5/2)					
		Silty Clay LOAM (10YR 4/3)			0.0		
6			2	4.0			
		CLAY, stiff (10YR 3/2)			0.0		
		sand at 8'					
8		LOAM w/sand and gravel (10YR 5/2)			141.3		
10		Fine SAND	3	4.0	420.1		
12		SAND AND GRAVEL			329.7		
14		Clay LOAM w/fine sand (10YR 5/2)	4	4.0			
		wet			57.0	▼	
16							
18							
20							

06-15-2005 J:\CLIENT~1\GI\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-59.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-60

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: 70' W & 30' S from the
Date Drilled	: 9/14/04		: SW corner of Site
Drilling Method	: Geoprobe		: building
Geologist	: SRC		
Drilling Co.	: KEI		

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		Asphalt (0-0.3'), gravel (0.3-0.5')					
		Silt loam FILL, slgihtly gravelly, moist, dark yellowish brown (10 YR 3/6)	1	2	2.6		
					NA		
4			2	3.4	1.7		
					5.7		
8		SILT LOAM, slighlty gravelly (fine), moist, firm, grayish brown (2.5 Y 5/2)					Soil sample collected for lab analysis (8-10')
		SAND (fine), very gravelly (fine), wet (non-satiated), loose, dark gray (5 Y 4/1)	3	3.2	24.1		
					35.3	▼	Groundwater sample collected for lab analysis (screen set at 7-12' bgs)
		SILT LOAM, very gravelly (fine), wet (satiated), firm, dark gray (5 Y 4/1)					
12		SAND (fine), gravelly (fine), wet (non-satiated), loose, dark gray (5 Y 4/1)					
16							
20							

06-15-2005 J:\CLIENT~1\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-60.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-61

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/14/04
Drilling Method : Geoprobe
Geologist : SRC
Drilling Co. : KEI

General Location : 90' W & 30'S from the SW corner of Site building

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		Gravel (0-0.2')					
		SILT LOAM, slightly gravelly (fine), moist, friable, dark grayish brown (10 YR 4/2)			4.6		
		Black staining and slight solvent odor present Very dark grayish brown (10 YR 3/2)	1	3.5			
		SANDY LOAM, very gravelly (fine), moist, loose, light olive brown (2.5 Y 5/3)			16.8		
4		SILT LOAM, gravelly (fine to medium), moist to wet (non-satiated), friable, yellowish brown (10 YR 5/4)			22.8		
			2	2.1			
					NA		
8		Very gravelly (fine)					Soil sample collected for lab analysis (8-10')
					25.6		
		SANDY LOAM, slightly gravelly (fine), moist, firm, dark gray (2.5 Y 4/0)	3	2.9			Groundwater sample collected for lab analysis (screen set at 10-15' bgs)
		SAND, very gravelly (fine), wet (non-satiated), loose, dark gray (2.5 Y 4/0)			78.7		
12		Wet (non-satiated to satiated)				▼	
			4	2.0	137.2		
16							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-61.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-62

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/14/04
Drilling Method : Geoprobe
Geologist : SRC
Drilling Co. : KEI

General Location : 130' W & 70'S from the SW corner of Site building

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		SILT LOAM, slightly gravelly (fine), moist, loose, yellowish brown (10 YR 5/4)			0.4		
		Dark gray (10 YR 4/1)	1	3.8			
		SAND (fine), gravelly (fine), moist, loose, brown (10 YR 5/3)			1.5		
4		SILT LOAM w/ sand (fine), moist, friable, dark grayish brown (10 YR 4/2); few, fine, faint iron concretions Slighlty gravelly (fine to medium), dark gray (5 Y 4/1)	2	2.5	127.4		Soil sample collected for lab analysis (4-6')
					NA		
8			3	2.3	302		Soil sample collected for lab analysis (8-10')
					NA		Groundwater sample collected for lab analysis (screen set at 10-15' bgs)
12		SAND, extremely gravelly (fine), wet (saitated), loose, dark gray (5 Y 4/1)	4	3.3	127.4	▼	
					135.5		
16							
20							

06-15-2005 J:\CLIENT~1\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-62.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-63

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID	: 2829E
Date Drilled	: 9/14/04
Drilling Method	: Geoprobe
Geologist	: SRC
Drilling Co.	: KEI
General Location	: 125' W & 30' N from the SW corner of Site building

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		TOPSOIL					
		SILT LOAM, gravelly (fine) dry, friable, dark grayish brown (10 YR 4/2)			0.2		
		Moist, firm, brown to dark brown (10 YR 4/3)	1	3.6	0.0		
4		Gravelly (fine to medium)			1.5		
			2	1.0	NA		
8		SILT LOAM, slightly gravelly (fine), wet (non-satiated), firm, dark gray (2.5 Y 4/0)			69		Soil sample collected for lab analysis (8-10')
		Very gravelly (fine to medium)	3	3.2	95.6		Soil sample collected for lab analysis (10-11.2')
12		Wet (non-satiated)			97.8	▼	Groundwater sample collected for lab analysis (screen set at 10-15' bgs)
		SAND (fine), very gravelly (fine), wet (non-satiated to satiated), loose, dark grayish brown (2.5 Y 4/2)	4	3.8	62.7		
16							
20							

06-15-2005 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-63.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-64

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/14/04
Drilling Method : Geoprobe
Geologist : SRC
Drilling Co. : KEI

General Location : 99' W & 34' N from the SW corner of Site : building

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		Asphalt (0-0.3'), gravel (0.3-0.5')					
		SILT LOAM, slightly gravelly (fine), moist, firm, dark grayish brown (10 YR 4/2)	1	2.8	0.0		
					0.2		
4		Rock (4.5-4.6')					Soil sample collected for lab analysis (4-6')
		Slight solvent odor present	2	1.8	352		
		Dark gray (2.5 Y 4/0)			NA		
8		SILT LOAM, gravelly (medium to coarse), moist, firm, dark gray (2.5 Y 4/0)			182		Soil sample collected for lab analysis (8-10')
		Wet (non-satiated)	3	2.6	100.8	▼	Soil sample collected for lab analysis (10-10.6')
12		SAND (fine), very gravelly (fine), wet (satiated), loose, dark grayish brown (2.5 Y 4/2)	4	2.4	69.2		Groundwater sample collected for lab analysis (screen set at 9.5-14.5' bgs)
					69		
16							
20							

06-15-2005 J:\CLIENT-1\GENUIN-1\2829EG-1.THR\FIGURE-1\SOILBO-1\SOILBO-1\KB-64.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-65

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/14/04
Drilling Method : Geoprobe
Geologist : SRC
Drilling Co. : KEI

General Location : 140' W & 25' S from the SW corner of Site building

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec Feet	PID ppm	Water Levels	REMARKS
0		TOPSOIL					
		SILT LOAM, slightly gravelly (fine to medium), moist, loose, brown (10 YR 5/3)	1	3.5	5.2		
					0.6		
4		Sand & rock present SILT LOAM, slightly gravelly (fine), moist, firm, brown (10 YR 5/3)	2	2.5	1.0		
		Grayish brown (2.5 Y 5/2)			21.9		
8		SILT LOAM, slightly gravelly (fine), moist, friable, dark gray (2.5 Y 4/0)					Soil sample collected for lab analysis (8-10')
			3	3.0	31.7		Soil sample collected for lab analysis (10-11')
					24.1	▼	
12		Moist to wet (non-satiated)					Groundwater sample collected for lab analysis (screen set at 9-14' bgs)
			4	2.8	9.6		
		SAND (fine), gravelly (fine to medium), wet (satiated), loose, dark gray (2.5 Y 4/0)			73.6		
16							
20							

06-15-2005 J:\CLIENT~1\GVGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-65.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-66

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project #2829E

Project ID : 2829E
Date Drilled : 3/27/05
Drilling Method : Push-probe
Geologist : Rob Hoverman
Drilling Co : KEI

General Location : Northeast of MW-10-1R

Depth in feet	GRAPHIC	DESCRIPTION	Rec Feet	PID ppm	REMARKS
0		SANDY CLAY LOAM, moist, friable, very dark grayish brown (10 YR 3/2)	3.5	0	
		SANDY CLAY, slightly gravelly (fine), moist, friable, yellowish brown (10 YR 5/6)		0.6	
		LOAM, moist, friable, yellowish brown (10 YR 5/4)		1.8	
5		SAND (medium), slightly gravelly (fine), moist, loose, some banding of varying colors	3	0.2	
		SAND (fine to medium), moist, loose, light olive brown (2.5 Y 5/3)		2.2	
10			3.5	2.2	
		SAND (fine), slightly gravelly (fine), wet, light olive brown (2.5 Y 5/3)		1.0	
			3	8.0	Groundwater sample collected for possible lab analysis (12-16)
15		SILT LOAM, wet		11.7	
		SAND (medium), slightly gravelly (fine), wet decreasing down to moist, light olive brown (2.5 Y 5/3)	4	4.7	Groundwater sample collected for possible lab analysis (16-20)
20				1.0	
			3	2.2	Groundwater sample collected for possible lab analysis (20-24)
		SAND (coarse), gravelly (fine), wet		0.0	
25			3	0.0	Groundwater sample collected for possible lab analysis (24-28)
		SAND (medium), wet		0.0	
30			2	NA	
35					
40					

05-03-2005 G:\CLIENTS\GENUIN~1\APRIL2~1\KB-66.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-67

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project #2829E

Project ID	: 2829E	General Location	: Northwest of MW-10-1R
Date Drilled	: 3/27/05		
Drilling Method	: Push-probe		
Geologist	: Rob Hoverman		
Drilling Co	: KEI		

Depth in feet	GRAPHIC	DESCRIPTION	Rec Feet	PID ppm	REMARKS
0		SANDY CLAY, moist, friable, dark yellowish brown (10 YR 4/4)	3.75	0.0	
		SANDY CLAY LOAM, moist, friable, olive brown (2.5 Y 4/3)		0.0	
5		SAND (medium), slightly gravelly (fine to coarse), dry	2	0.6	
				0.2	
				0.0	
10			3	0.6	
		SANDY LOAM, moist, friable, olive brown (2.5 Y 4/4)			
		SILT LOAM, wet, friable, olive brown (2.5 Y 4/4)		15.3	
		LOAMY SAND, wet, friable, olive brown (2.5 Y 4/4)	3		Groundwater sample collected for possible lab analysis (12-16)
15		SAND (medium), wet, loose, dark gray (2.5 Y 4/1)		24.6	Soil sample collected for possible lab analysis (14-16)
20					
25					
30					
35					
40					

05-03-2005 G:\CLIENTS\GENUIN~1\APRIL2~1\KB-67.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-68

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project #2829E

Project ID : 2829E
Date Drilled : 3/27/05
Drilling Method : Push-probe
Geologist : Rob Hoverman
Drilling Co : KEI

General Location : South of Site trailer

Depth in feet	GRAPHIC	DESCRIPTION	Rec Feet	PID ppm	REMARKS
0		CLAY LOAM, moist, friable, dark yellowish brown (10 YR 3/4)	4	0.6	
		SANDY CLAY LOAM, slightly gravelly (fine), moist, friable, dark yellowish brown (10 YR 3/6)		1.8	
		SANDY LOAM, moist, friable, brown (10 YR 4/3)		0.6	
5		SAND (medium to coarse), slightly gravelly (fine), moist, loose	1	NA	
				0.2	
10		As above, wet at 10.5'	2.5	NA	
				0.2	
			3	0.2	Groundwater sample collected for possible lab analysis (12-16)
15					
20					
25					
30					
35					
40					

05-03-2005 G:\CLIENTS\GENUIN~1\APRIL2~1\KB-68.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-69 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 3/28/05 Drilling Method : Push-probe Geologist : Rob Hoverman Drilling Co : KEI
KERAMIDA Project #2829E	General Location : East of Site trailer and : south of pavement edge

Depth in feet	GRAPHIC	DESCRIPTION	Rec Feet	PID ppm	REMARKS
0		SANDY LOAM, slightly gravelly (fine), moist, friable, very dark yellowish brown (10 YR 3/4)	3	0.0	
		CLAY LOAM, moist, friable, dark olive brown (2.5 Y 3/3)		0.0	
		LOAMY SAND, slightly gravelly (fine), moist, friable, dark yellowish brown (10 YR 4/4)		0.0	
5		SAND (medium), moist, loose, yellowish brown (10 YR 5/4)	1	NA	
				1.4	
10		SILT, moist, friable, light olive brown (2.5 Y 5/4)	3	1.0	
		SAND (fine), moist, loose, light olive brown (2.5 Y 5/4) SAND (fine to medium), wet, loose, brown (10 YR 5/3)		2.6	
15			4	2.2	Groundwater sample collected for possible lab analysis (12-16)
				2.6	
			2.5	1.0	Groundwater sample collected for possible lab analysis (16-20)
20		SAND (medium to coarse), slightly gravelly (fine to medium), wet, loose		0.6	
			2.5	0.2	Groundwater sample collected for possible lab analysis (20-24)
25		SAND (medium to coarse), slightly gravelly (fine to medium), wet, loose		1.0	
			3	0.6	Groundwater sample collected for possible lab analysis (24-28)
				30	
				0.0	Groundwater sample collected for possible lab analysis (28-32)
30			3	1.4	
				3.5	
35			3	6.0	Groundwater sample collected for possible lab analysis (32-36)
40					

05-03-2005 G:\CLIENTS\GENUIN~1\APRIL2~1\KB-69.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-70 (Page 1 of 1)

Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID	: 2829E	General Location : 20' south of KB-68
	Date Drilled	: 3/28/05	
	Drilling Method	: Push-probe	
KERAMIDA Project #2829E	Geologist	: Rob Hoverman	
	Drilling Co	: KEI	

Depth in feet	GRAPHIC	DESCRIPTION	Rec Feet	PID ppm	REMARKS
0		CLAY LOAM, moist, friable, dark grayish brown (10 YR 4/2)	3	0.0 0.0	
5		SAND (medium), slightly gravelly (fine), moist, loose, pale brown (10 YR 6/3)	2.75	0.2 0.2	
		SAND (medium), moist increasing down		0.2	Soil sample collected for possible lab analysis (9.75-10)
10		Black staining at 10'	3	0.6	Groundwater sample collected for possible lab analysis (8-12)
		SAND (fine to medium), gravelly (fine to medium), wet, loose		0.2	
15			3.5	2.2	Groundwater sample collected for possible lab analysis (12-16)
20					
25					
30					
35					
40					

05-03-2005 G:\CLIENTS\GENUIN~1\APRIL2~1\KB-70.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-71 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Marion County, Indiana	Project ID : 2829E-001 Date Drilled : 10-03-05 Drilling Method : Push-Probe Geologist/Tech : Ryan Moore Drilling Co : KEI General Location : Adjacent to SVE 32
KERAMIDA Project No. 2829E-001	

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	REMARKS
0		Silt Loam, slightly gravelly (medium), friable, dry, 2.5Y 3/2 (very dark grayish brown)			0	
		Sandy Loam, slightly gravelly (medium), friable, dry, 2.5Y 4/3 (olive brown)	1	80	0	
4		Sand (medium to coarse), (fine), (medium), loose, moist, 2.5Y 3/2 (very dark grayish brown)	2	80	39.2	
		Sandy Loam, gravelly (medium), friable, moist, 5Y 4/2 (olive gray), solvent like odor			359.1	
8		Same as above, wet (non-satiated),	3	100	827.1	Soil sample collected for lab analysis (8-10').
		Sand (medium to coarse), (fine), (medium), loose, wet (satiated), 5Y 4/1 (dark gray)			659.1	Soil sample collected for lab analysis (10-12').
12						
16						
20						

07-13-2006 J:\CLIENT~1\GI\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-71.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-72

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Marion County, Indiana

KERAMIDA Project No. 2829E-001

Project ID	: 2829E-001	General Location	: Adjacent to SVE 28
Date Drilled	: 10-03-05		
Drilling Method	: Push-Probe		
Geologist/Tech	: Ryan Moore		
Drilling Co	: KEI		

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	REMARKS
0		Silt Loam, friable, moist, 10YR 3/2 (very dark grayish brown)	1	80	0	
		Same as above, slightly gravelly (medium), friable, brick fragments			0	
4		Loamy Sand (medium), loose, moist, 2.5Y 4/4 (olive brown)			0	
		Sandy Loam, friable, moist, 2.5Y 3/2 (very dark grayish brown)	2	100		
		Same as above, gravelly (medium), friable, moist, 5Y 4/1 (dark gray), solvent like odor			249.1	Soil sample collected for lab analysis (6-7').
8					194.3	
		Sand (medium to coarse), (fine), (medium), loose, wet (non-satiated), 2.5Y 4/4 (olive brown)	3	100		
		Same as above, wet (satiated)			707.1	
12						
16						
20						

07-13-2006 J:\CLIENT-1\GIGENUIN-1\2829EG-1.THR\FIGURE-1\SOILBO-1\SOILBO-1\KB-72.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-73

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 6/28/06
Drilling Method : Geoprobe
Geologist : RSF
Drilling Co. : KEI
General Location : 25' SW of KB-62

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	Water Levels	REMARKS
0		Topsoil			0		
		No recovery	1	50			
4		Coarse sand with gravel, tan, dry, loose			0		
		Silt loam with sand, dry to moist, soft to medium, dark gray	2	75	1.5		
8		Sand fine to medium with gravel, loose, moist, dark gray			0		Soil sample collected for lab analysis (8-10')
		Wet	3	100		▼	
12					1.5		
16							
20							

07-13-2006 J:\CLIENT-1\GENUIN-1\2829EG-1.THR\FIGURE-1\SOILBO-1\SOILBO-1\KB-73.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-74

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 6/28/06
Drilling Method : Geoprobe
Geologist : RSF
Drilling Co. : KEI

General Location : 25' S of KB-62

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	Water Levels	REMARKS
0		Topsoil	1	100	0		
		Silt Loam, dry, loose, tan/brown					
		Fine to medium sand, brown, loose, dry			0		
4		With gravel	2	100	1.2		
		Silt Loam with sand, moist, stiff, slight red staining, dark gray and tan					Soil sample colected for lab analysis (6-8)
8		No staining			8.2		
		wet	3	75	0	▼	
		Fine to medium sand with gravel, wet, dark gray, loose			0.5		
12							
16							
20							

07-13-2006 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-74.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-75 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	Project ID : 2829E Date Drilled : 6/28/06 Drilling Method : Geoprobe Geologist : RSF Drilling Co. : KEI General Location : 25' SSE of KB-62

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	Water Levels	REMARKS
0		Topsoil			0		
		Silt Loam with sand,medium stiff, dry, brown	1	100	0		
4		With gravel	2	75	0		
		Medium sand, tan, loose, dry					
		Silt loam with sand, medium stiff, tan, dry Stiff, dark gray			14.9		
8		Moist			14.5		Soil sample colected for lab analysis (8-10)
		with gravel, wet, loose	3	100		▼	
					14.5		
12		Medium sand at tip					
16							
20							

07-13-2006 J:\CLIENT~1\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-75.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-76 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E	Project ID : 2829E Date Drilled : 6/28/08 Drilling Method : Geoprobe Geologist : RSF Drilling Co. : KEI General Location : 18' E of KB-62

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	Water Levels	REMARKS
0		Topsoil with gravel fill material			0		
		Silt loam with sand; dry, brown, soft, brick fragments (1-3')	1	100			
		Dark gray, medium to stiff			0		
4		Brick fragments (4-5')					
		Medium sand with gravel, tan, loose, dry			30		
			2	100			
		Silt loam, dry, tan, medium stiff Dark gray			800		Soil sample colected for lab analysis (6-8)
8		Moist					
					490	▼	
		Very moist to wet	3	100			
					250		
12		Medium sand with gravel, wet, tan, loose					
16							
20							

07-13-2006 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-76.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-77

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 6/28/06
Drilling Method : Geoprobe
Geologist : RSF
Drilling Co. : KEI

General Location : 25' NE of KB-62

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	Water Levels	REMARKS
0		Topsoil			20		
		No recovery	1	25			
4		Silt loam with sand, medium stiff, tan, dry			30		
		Dark gray and tan, with gravel	2	100			
		Dark gray, with gravel			68		Soil sample colected for lab analysis (6-8')
8		becoming moist			37		
			3	100			
		Medium sand with gravel, tan, moist, loose			39		Soil sample colected for lab analysis (10-12')
		Silt loam with gravel, dark gray, very moist				▼	
12		Medium to coarse sand, gray, loose, wet			35		
			4	100			
					47		
16							
20							

07-13-2006 J:\CLIENT~1\GIGENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-77.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-78

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 6/28/06
Drilling Method : Geoprobe
Geologist : RSF
Drilling Co. : KEI
General Location : 25' NW of KB-62

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	FID ppm	Water Levels	REMARKS
0		Topsoil with gravel and wood			20.5		
		Medium sand with gravel, tan, loose, dry	1	100			
		Silt loam with sand, dark gray and tan, dry, soft, some black staining (3-3.5')			760		Soil sample colected for lab analysis (2-4')
4		without staining			5.3		
		Medium to coarse sand with gravel, loose, brown, dry	2	100			
		Sandy silt Loam, dry, stiff, gray			3.0		
8		Moist			23		
			3	100			
		Fine to medium sand, loose, gray and tan, wet			226	▼	Soil sample colected for lab analysis (10-11')
12							
16							
20							

07-13-2006 J:\CLIENT~1\GENUIN~1\2829EG~1.THR\FIGURE~1\SOILBO~1\SOILBO~1\KB-78.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-A

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005	General Location	: North of SVE-1 in
Date Drilled	: 8/24/2006		: the southern portion of
Drilling Method	: Push-probe		: the Holt Road entrance
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Keramida		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')			
			NA	NA	
				NA	
5		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1)		0.0	
			2.8		
				0.9	
		SAND (fine), moist, loose, dark gray (5 Y 4/1)			
		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1), strong odor present		287	
10			3.4		
		SAND (fine), extremely gravelly (fine), moist, loose, very dark gray (5 Y 3/1)		8.4	
15					

09-12-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-A.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-B

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005	General Location	: Northwest of SVE-1 in
Date Drilled	: 8/24/2006		: the southern portion of
Drilling Method	: Push-probe		: the Holt Road entrance
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Keramida		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
5		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1)		0.0	
			2.6		Collected a soil sample for laboratory analysis (6-8')
				18.6	
		Rock			
10		SAND (fine), extremely gravelly (fine to medium), moist, loose, very dark gray (5 Y 3/1)	1.4	1.0	
15					

09-12-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-B.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-C

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005	General Location	: Approx. 13' north of
Date Drilled	: 8/24/2006		: soil boring KB-A
Drilling Method	: Push-probe		
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Keramida		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
5		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1)	3.0	0.0	
				38	
		SAND w/ gravel			Collected a soil sample for laboratory analysis (8-10')
		SANDY LOAM, gravelly (fine to medium), moist, firm, dark gray (5 Y 4/1)	2.7	43	
10		SAND (fine), extremely gravelly (fine to medium), moist, loose, yellowish brown (10 YR 5/4)		2.0	
15					

09-12-2006 G:\CLIENTS\GI\GENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-C.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-D

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005
Date Drilled	: 8/24/2006
Drilling Method	: Push-probe
Geologist/Tech	: Steve Cobb
Drilling Co.	: Keramida
General Location	: Approx. 3' west of the : Holt Road entrance : south gate post

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
5		SANDY LOAM, slightly gravelly (fine), moist, firm, olive gray (5 Y 4/2)	2.5	3.1	
				5.8	
10		SAND (fine), moist, loose, brown	3.1	0.0	
				0.0	
15					

09-12-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-D.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-E

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005
Date Drilled	: 8/25/2006
Drilling Method	: Push-probe
Geologist/Tech	: Steve Cobb
Drilling Co.	: Keramida
General Location	: Approx. 4' east & 9' north of the northwest corner of the west system trailer

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
		SAND (fine), moist, loose, brown (10 YR 5/3)			
5		SANDY LOAM, gravelly (fine), firm, brown (10 YR 4/3)	3.8	10.0	
				8.6	
		Dark gray 92.5 Y 4/1)			
		Wet (saturated), gray (5 Y 5/1)			Collected a soil sample for laboratory analysis (8-10')
				4.7	
10			3.9		
				4.5	
		SAND (fine), moist, loose, gray (5 Y 4/1)			
15					

09-12-2006 G:\CLIENTS\GIGENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-E.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-F

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID : 2829E-005
Date Drilled : 8/25/2006
Drilling Method : Push-probe
Geologist/Tech : Steve Cobb
Drilling Co. : Keramida

General Location : Approx. 9' west & 33' north
: of the northwest corner of
: the west system trailer

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
5		Sand & Gravel FILL		0.0	Collected a soil sample for laboratory analysis (5-6.5')
		SANDY LOAM, moist, firm, dark gray (5 Y 4/1)	2.4	10.8	
					Collected a soil sample for laboratory analysis (8-10')
10		SAND (fine), moist, loose, dark grayish brown (2.5 Y 4/2)	2.2	3.2	
15					

09-12-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-F.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-G

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005
Date Drilled	: 8/25/2006
Drilling Method	: Push-probe
Geologist/Tech	: Steve Cobb
Drilling Co.	: Keramida
General Location	: Approx. 23' west & 45' north of the northwest corner of the west system trailer

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
5		Silt loam FILL, slightly gravelly (fine), moist, friable, dark grayish brown (10 YR 4/2)	3.8	6.0	Collected a soil sample for laboratory analysis (6-8')
		SANDY LOAM, moist, firm, dark gray (5 Y 4/1)		11.5	
		Slightly gravelly (fine to medium)			Collected a soil sample for laboratory analysis (8-10')
				8.7	
10		Wet	3.8		
				7.5	
15					

09-12-2006 G:\CLIENTS\GVGENUIN~1\2829EG~1.THR\2829E-~2BORING~1\KB-G.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-H

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005	General Location	: Approx. 15' east & 7'
Date Drilled	: 8/25/2006		: south of KB-64
Drilling Method	: Push-probe		
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Keramida		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-4')	NA	NA	
				NA	
5		Sand & Gravel FILL		0.0	
		SANDY LOAM, moist, frible to firm, dark grayish brown (2.5 Y 4/2)	2.9	15.3	
		SANDY LOAM, moist, firm, gray (5 Y 5/1)			Collected a soil sample for laboratory analysis (8-10')
10			2.0	16.8	
15					

09-12-2006 G:\CLIENTS\GGENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-H.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-I (Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005	General Location	: Approx. 137' west & 103'
Date Drilled	: 9/6/2006		: north of the southwest
Drilling Method	: Push-probe		: corner of Site bldg.
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Keramida		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Asphalt			
		Gravel FILL		0.0	
		SANDY LOAM, very gravelly (fine), moist, firm, very dark grayish brown (10 YR 3/2)	2.9	0.0	
5		SANDY LOAM, slightly gravelly (fine), moist, friable, dark grayish brown (2.5 Y 4/2) to gray (5 Y 4/1)	3.2	0.0	
				3.2	Collected a soil sample for laboratory analysis (8-10')
		SAND (fine), very gravelly (fine to medium), wet (saturated), olive (5 Y 4/3)	1.2	0.0	
10					
15					

09-12-2006 G:\CLIENTS\GIGENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-I.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-J (Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005	General Location	: Approx. 93' west & 103'
Date Drilled	: 9/6/2006		: north of the southwest
Drilling Method	: Push-probe		: corner of Site bldg.
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Keramida		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind	NA	NA	
				NA	
		Sandy loam FILL, gravelly (fine), moist, friable to firm, very dark grayish brown (10 YR 3/2)	2.3	0.0	
5				0.0	
		SANDY LOAM, slightly gravelly (fine to medium), friable, gray (5 Y 5/1)	2.7	0.0	
10				2.1	Collected a soil sample for laboratory analysis (10-12')
15					

09-12-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-J.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-K

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005
Date Drilled	: 9/6/2006
Drilling Method	: Push-probe
Geologist/Tech	: Steve Cobb
Drilling Co.	: Keramida
General Location	: Approx. 73' west & 62' : north of the southwest : corner of Site bldg.

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind	NA	NA	
				NA	
5		Silt loam FILL, gravelly (fine), moist, firm, dark grayish brown (10 YR 3/2)	3.3	0.0	
		Sand (fine) FILL, moist, loose, olive brown (2.5 Y 4/3)		0.2	Collected a soil sample for laboratory analysis (8-10')
		SANDY LOAM, slightly gravelly (fine to medium), moist, firm, gray (5 Y 5/1)		21.7	
10		Moist to very moist	3.4		Collected a soil sample for laboratory analysis (10-12')
				18.4	
15					

09-12-2006 G:\CLIENTS\GIGENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-K.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-L

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005
Date Drilled	: 9/6/2006
Drilling Method	: Push-probe
Geologist/Tech	: Steve Cobb
Drilling Co.	: Keramida
General Location	: Approx. 66' west & 24' : north of the southwest : corner of Site bldg.

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind	NA	NA	
				NA	
5		Silt loam FILL, gravelly (fine), moist, firm, dark grayish brown (10 YR 4/2)	3.5	0.0	
				17.3	Collected a soil sample for laboratory analysis (8-10')
		SAND (fine), moist, loose, olive (5 y 4/3)	2.7	58.6	
10		SANDY LOAM, gravelly (fine to medium), moist to very moist, friable, gray (5 Y 5/1)		30.7	Collected a soil sample for laboratory analysis (10-12')
		SAND, gravelly (fine), moist, loose, brown			
15					

09-12-2006 G:\CLIENTS\GI\GENUIN~1\2829EG~1.THR\2829E~~2\BORING~1\KB-L.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-M

(Page 1 of 1)

Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E-005

Project ID	: 2829E-005
Date Drilled	: 9/6/2006
Drilling Method	: Push-probe
Geologist/Tech	: Steve Cobb
Drilling Co.	: Keramida
General Location	: Approx. 65' west & 1.5' : north of the southwest : corner of Site bldg.

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind	NA	NA	
				NA	
5		Gravel FILL Silt loam FILL, gravelly (fine), very dark gray (5 y 3/1) w/ olive (5 Y 4/4)	2.2	0.0	
		SANDY LOAM, gravelly (fine to medium), moist, firm, gray (5 Y 5/1)	1.4	NA	Collected a soil sample for laboratory analysis (8-10')
10		SAND (fine), very gravelly (fine), moist, loose, dark olive gray (5 Y 4/2)		5.1	
15					

09-12-2006 G:\CLIENTS\GIGENUIN~1\2829EG~1.THR\2829E~2\BORING~1\KB-M.BOR

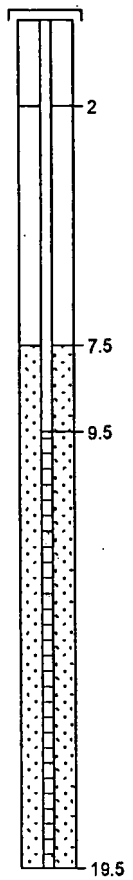
KERAMIDA Environmental, Inc.	LOG OF BORING MW-132R (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: At former MW-132
Date Drilled	: 10/10/2006		: location
Drilling Method	: HSA		
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Earth Exploration		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-19.5')	NA	NA	
				NA	
5			NA	NA	
				NA	
			NA	NA	
10				NA	
			NA	NA	
				NA	
15			NA	NA	Well Construction: Screen: 9.5-19.5' Riser: 0-9.5' Sand Pack: 18-30' Bentonite: 2-7.5' Concrete: 0-2'
				NA	
20					
25					
30					

Well: MW-132
Elev.: 711.74



11-17-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\WELLCO~1\MW-132R.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING MW-147AR

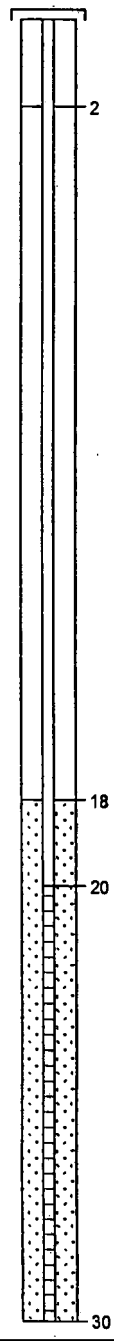
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: At former MW-147A
Date Drilled	: 10/10/2006		: location
Drilling Method	: HSA		
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Earth Exploration		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-30')		NA	
			NA		
				NA	
5				NA	
			NA		
				NA	
				NA	
10			NA		
				NA	
				NA	
			NA		
15				NA	
				NA	
				NA	
			NA		
20				NA	
				NA	
				NA	
			NA		
25				NA	Well Construction: Screen: 20-30' Riser: 0-20' Sand Pack: 18-30' Bentonite: 2-18' Concrete: 0-2'
			NA		
				NA	
30			NA	NA	

Well: MW-147AR
Elev.: 711.71



11-17-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\WELLCO~1\MW-147AR.BOR

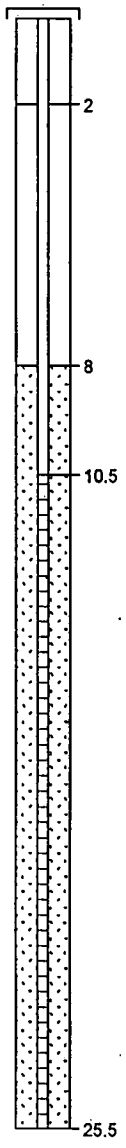
KERAMIDA Environmental, Inc.	LOG OF BORING MW-148R (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	General Location	: At former MW-148
Date Drilled	: 10/10/2006		: location
Drilling Method	: HSA		
Geologist/Tech	: Steve Cobb		
Drilling Co.	: Earth Exploration		

Depth in feet	GRAPHIC	DESCRIPTION	feet	PID ppm	REMARKS
0		Blind Drilled (0-25.5')		NA	
			NA		
				NA	
5				NA	
			NA		
				NA	
				NA	
10			NA		
				NA	
				NA	
15			NA		
				NA	
				NA	
20			NA		Well Construction: Screen: 10.5-25.5' Riser: 0-10.5' Sand Pack: 8-25.5' Bentonite: 2-8' Concrete: 0-2'
				NA	
			NA		
25				NA	
30					

Well: MW-148
Elev.: 711.44



11-17-2006 G:\CLIENTS\GENUIN~1\2829EG~1.THR\2829E~2\WELLCO~1\MW-148R.BOR

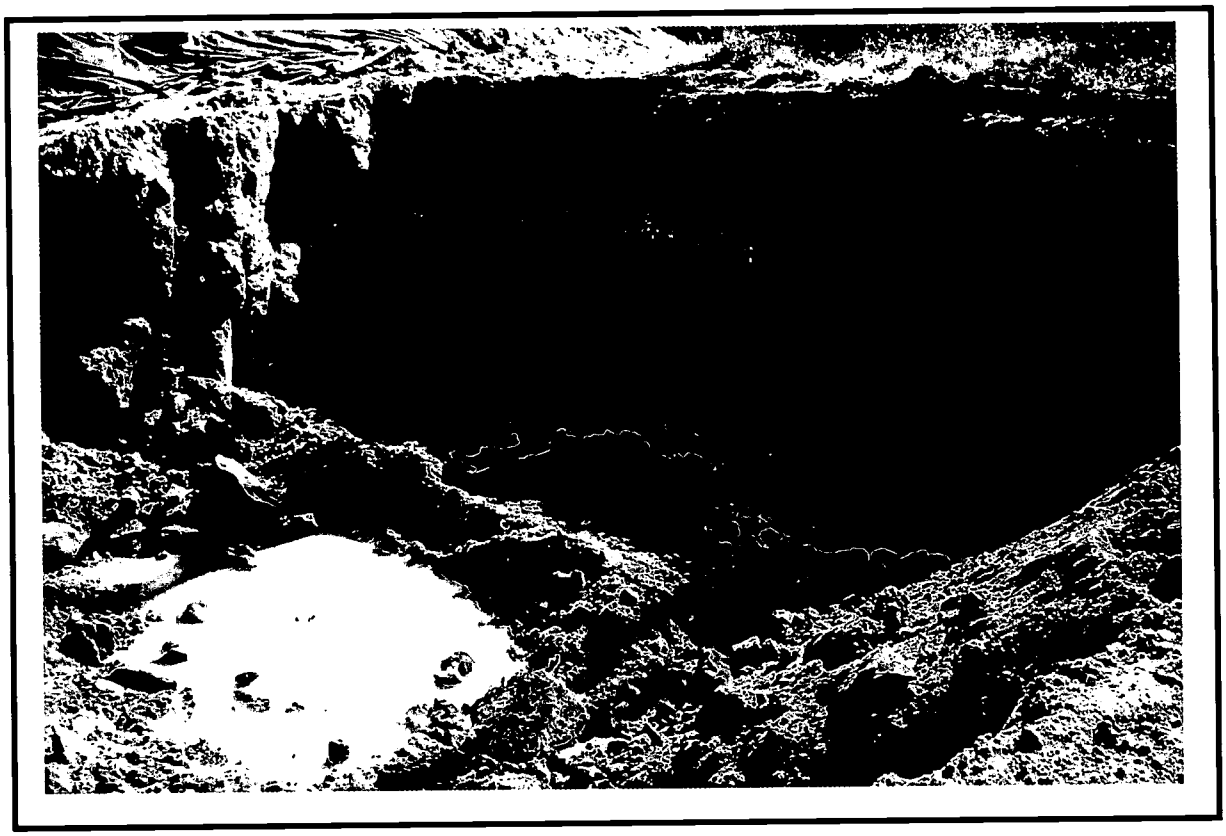


Photo 1. Area 3 Excavation - Facing South

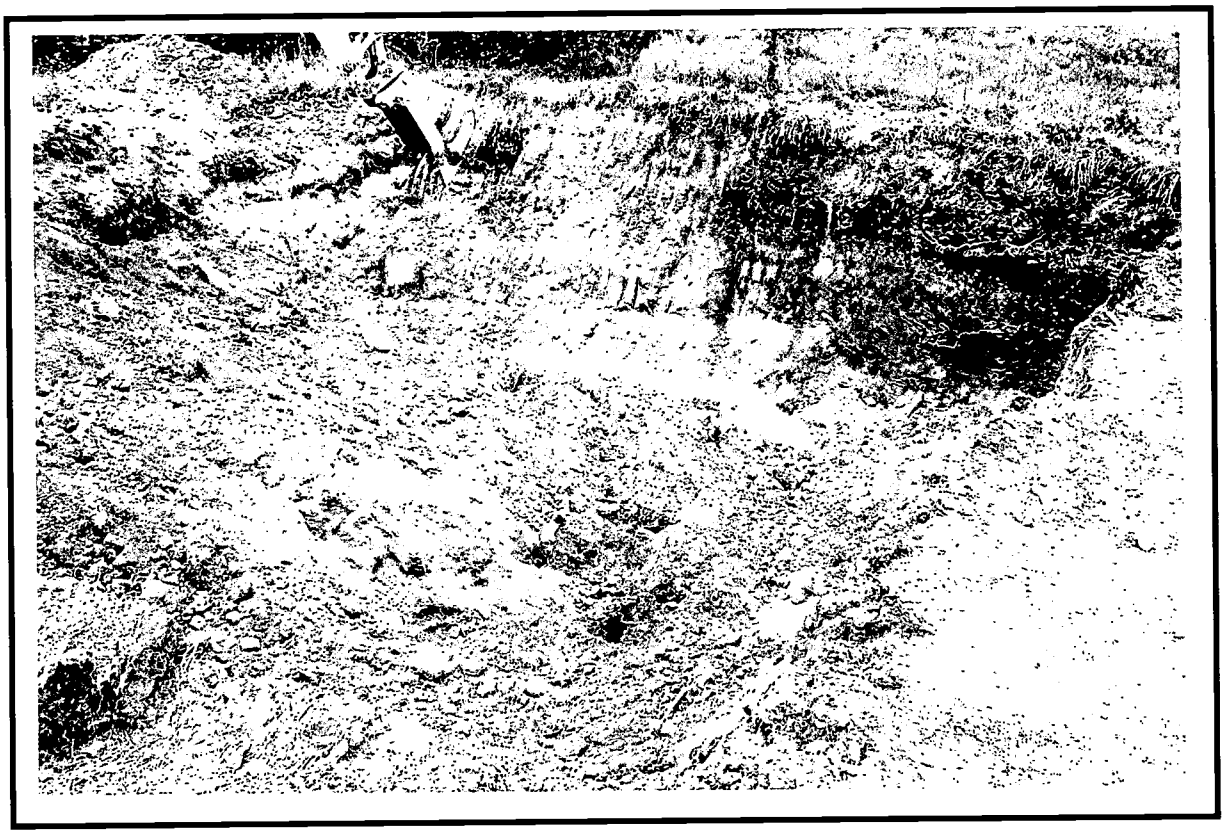


Photo 2. Area 2 Excavation - Facing West

Photo 3. Area 1 Excavation

Photo 4. Area 1 Excavation - Facing North

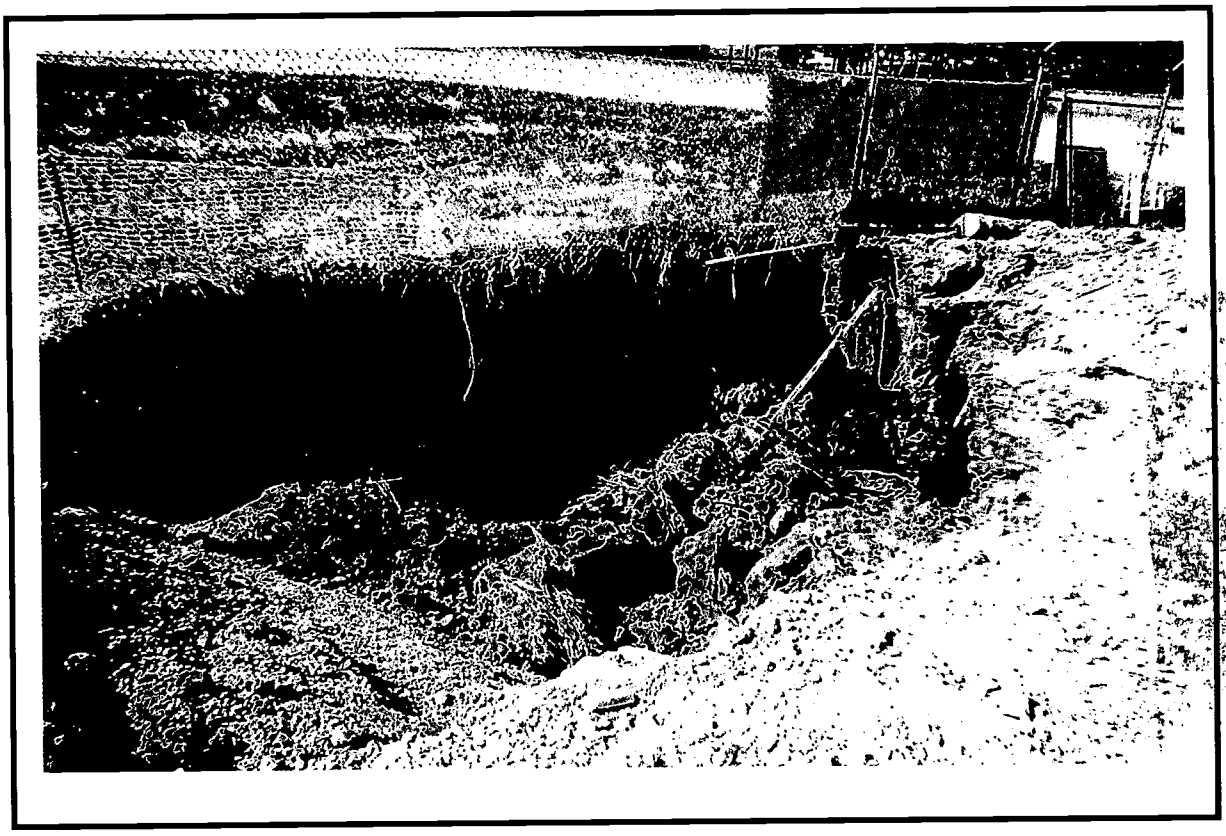


Photo 5. Area 2 Excavation - Facing North

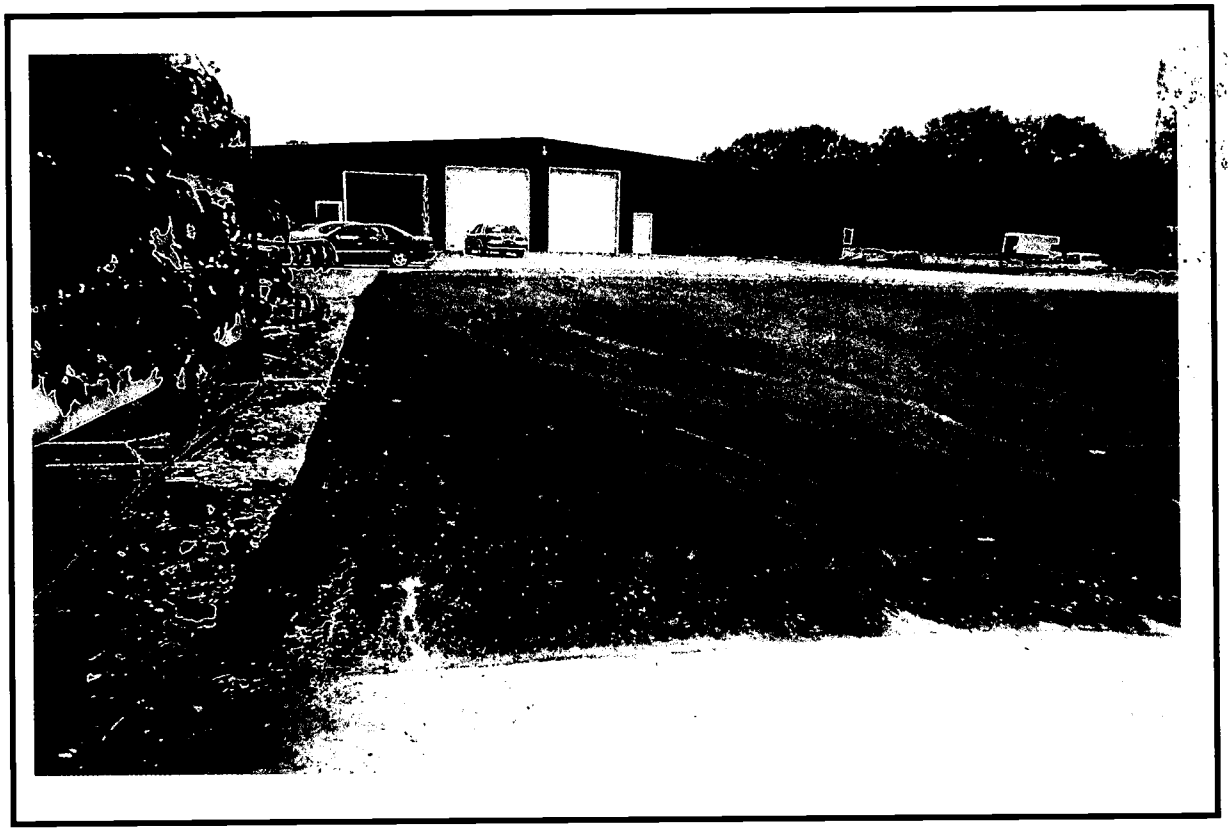


Photo 6. Final Asphalt Grade - Facing Southeast

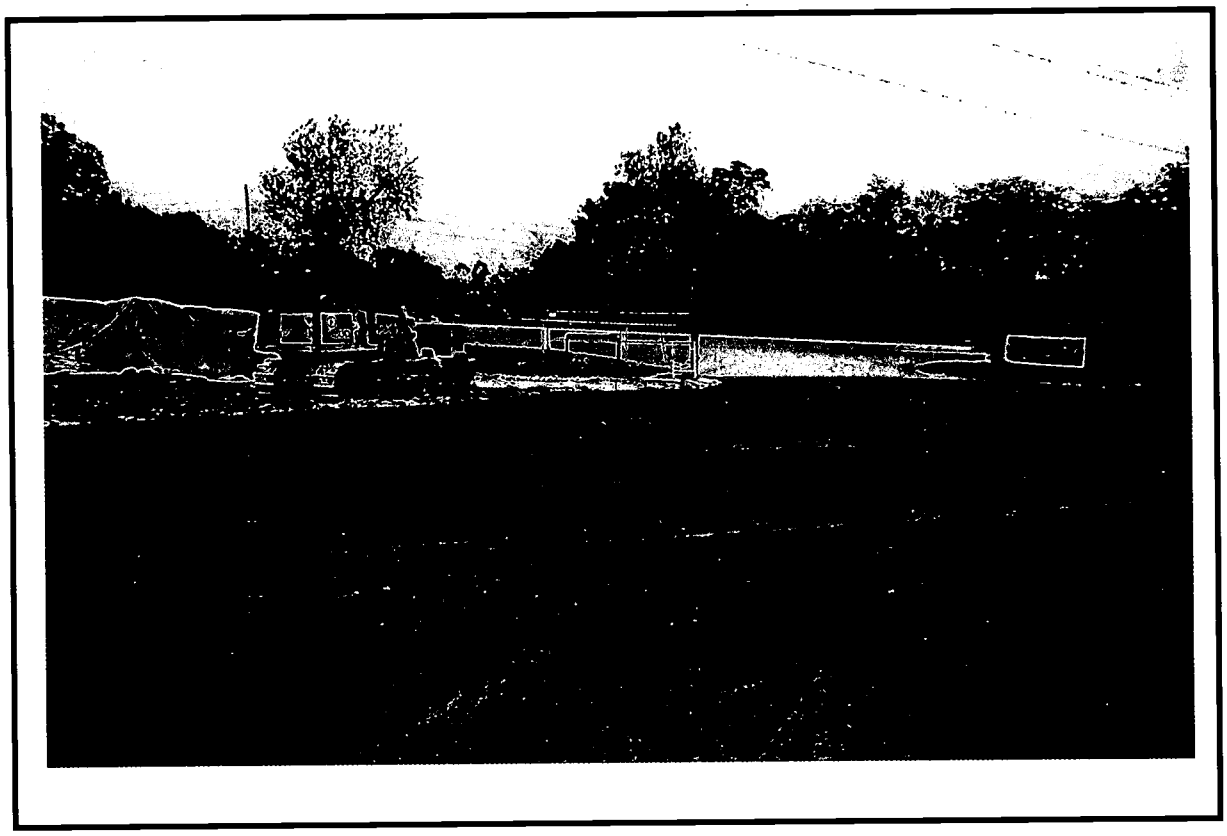


Photo 7. Final Asphalt Grade - Facing Northwest

EARTH EXPLORATION, Inc.
7770 West New York Street
Indianapolis, IN 46214-2988
317-273-1690 (FAX) 317-273-2250

TRANSMITTAL

Date: September 28, 2006

RECEIVED
SEP 29 2006
KERAMIDA

To: Indiana Department of Natural Resources
Division of Water
402 W. Washington St., Rm W264
Indianapolis, IN 46204

Project: Genuine Parts Company

Location: Indianapolis, Indiana

EEI Project No.: 1-06-292

Enclosed is 1 [X] Copy [ ] Samples [ ]

[X] Record of Water Well – Abandonment –
[ ] Record of Water Well – Installment –
[ ]

The enclosed items are being sent via:

[X] First Class Mail
[ ] Overnight Delivery by
[ ] UPS
[ ] Federal Express
[ ] EEI Courier

Remarks:

c: KERAMIDA Environmental, Inc.

Sincerely,

EARTH EXPLORATION, INC.

Mark N. Knuttel
Project Coordinator

RECORD OF WATER WELL

State Form 35680 (R5 / 9-04)

Driller--Mail complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204-2641
(877) 928-3755 toll-free or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION

County where drilled	Civil township name	Township number (N-S)	Range number (E-W)	Section
Marion	Wayne	T15N	R3E	5

Driving directions to the well location (*include trip origin, street & road names, intersecting roads, and compass directions).*
Show well address below and subdivision in box at lower right. There is space for a map on the reverse side.

See attached map

Well Abandonment (see attached table)

Well address: 700 North Olin Avenue

UTM Northing
UTM Easting
Datum ☐ NAD 27 ☐ NAD 83
GPS used
Subdivision name & lot number (if applicable)

If drilled for water supply, this well is: ☐ First well on property ☐ Replacement well ☐ Additional well on property ☐ Dry hole

OWNER - CONTRACTOR

Well owner--name: Genuine Parts Company — Telephone number: —

Address (*number and street, city, state, ZIP code*): 700 North Olin Avenue, Indianapolis, IN

Building contractor--name	Address (*number and street, city, state, ZIP code*)	Telephone number
—	—	—

Drilling contractor--name	Address (*number and street, city, state, ZIP code*)	Telephone number
Earth Exploration, Inc.	7770 W. New York St. Indpls, IN 46214	317.273.1690

Equipment operator--name	License number of operator	Date of well completion
Bernie Judy / Andrew Carpenter	1732 / 2011	* see attach summary table

CONSTRUCTION DETAILS

Use of well
☐ Home
☒ Public supply
☐ Industrial / commercial
☐ Livestock
☐ Irrigation
☒ Monitoring / environ.
☐ Test hole
Other: _____

Drilling method
☐ Rotary
☐ Reverse rotary
☐ Cable tool
☐ Jet
☐ Bucket / bore
☒ Auger (including HSA)
☐ Direct push
Other: _____

Type of pump
☐ Submersible
☐ Shallow-well jet
☐ Deep-well jet
☐ No pump installed
Other: _____

Pump depth setting (feet)

Total depth of well (feet) *	Borehole diameter (in.) —	Gravel pack inserted * ☐ Yes ☐ No
Casing length (feet) *	Casing diameter (in.) *	Casing material * ☐ PVC ☐ Steel Other: _____
Screen length (feet) *	Screen diameter (in.) *	Screen material * ☐ PVC ☐ Steel Other: _____
Screen slot size *	Water quality (clear, odor, etc.) —	

WELL CAPACITY TEST

Test method	Static level below surface	Gallons per min.	Hours tested	Drawdown (change in level)
☐ Air ☐ Bailing ☐ Pumping —	— feet	—	—	— feet

GROUTING

Grout material	Grout depth from to	Installation method	No. of bags used
—	—	—	—

WELL ABANDONMENT

Sealing material	Depth filled from to	Installation method	No. of bags used
Bentonite Concrete	Full	Surface	—

WELL LOG

FORMATIONS: Type of material	From (feet)	To (feet)
See attached boring logs for subsurface information		
* See attached Well Abandonment Summary Table for well construction details		

Additional space for well log and comments on reverse side

I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.

Signature of **drilling contractor** or authorized representative MUST BE SIGNED OR STAMPED: Earth Exploration, Inc. Mark Knuff

Date: 9.28.06

SITE CONFIRMATION - FOR ADMINISTRATIVE USE ONLY

Well driller does not fill out this section

County	Township	Range	1/4 of 1/4 of 1/4	Section
USGS topo map	Ft W of EL	Ground elevation	Reserve or grant name	Reserve No.
Field location By Date	Ft N of SL	Depth to bedrock	Subdivision name	Lot number
IRREGULAR LAND SURVEY other than 2nd Principal Meridian ○ **GT** Greenville Treaty area (1st Prin. Merid.) ○ **MD** Vincennes donations and grants ○ **CMG** Clark Military Grant (sections 1-298) ○ **MRL** Michigan Road Land (sections 1-45) ○ **Reserve** granted by treaty (name above)	Ft E of WL	Bedrock elevation	UTM coordinates on **NAD 27** accepted, verified, or determined by Division of Water	UTM Northing
	Ft S of NL	Aquifer elevation		UTM Easting

WELL LOG (continued from front)

FORMATIONS: Type of material	From (feet)	To (feet)

COMMENTS

MAP INSERT OR SKETCH SHOWING LOCATION

Locate with reference to highways, intersecting streets and county roads, and distinctive landmarks.

NORTH

WEST

EAST

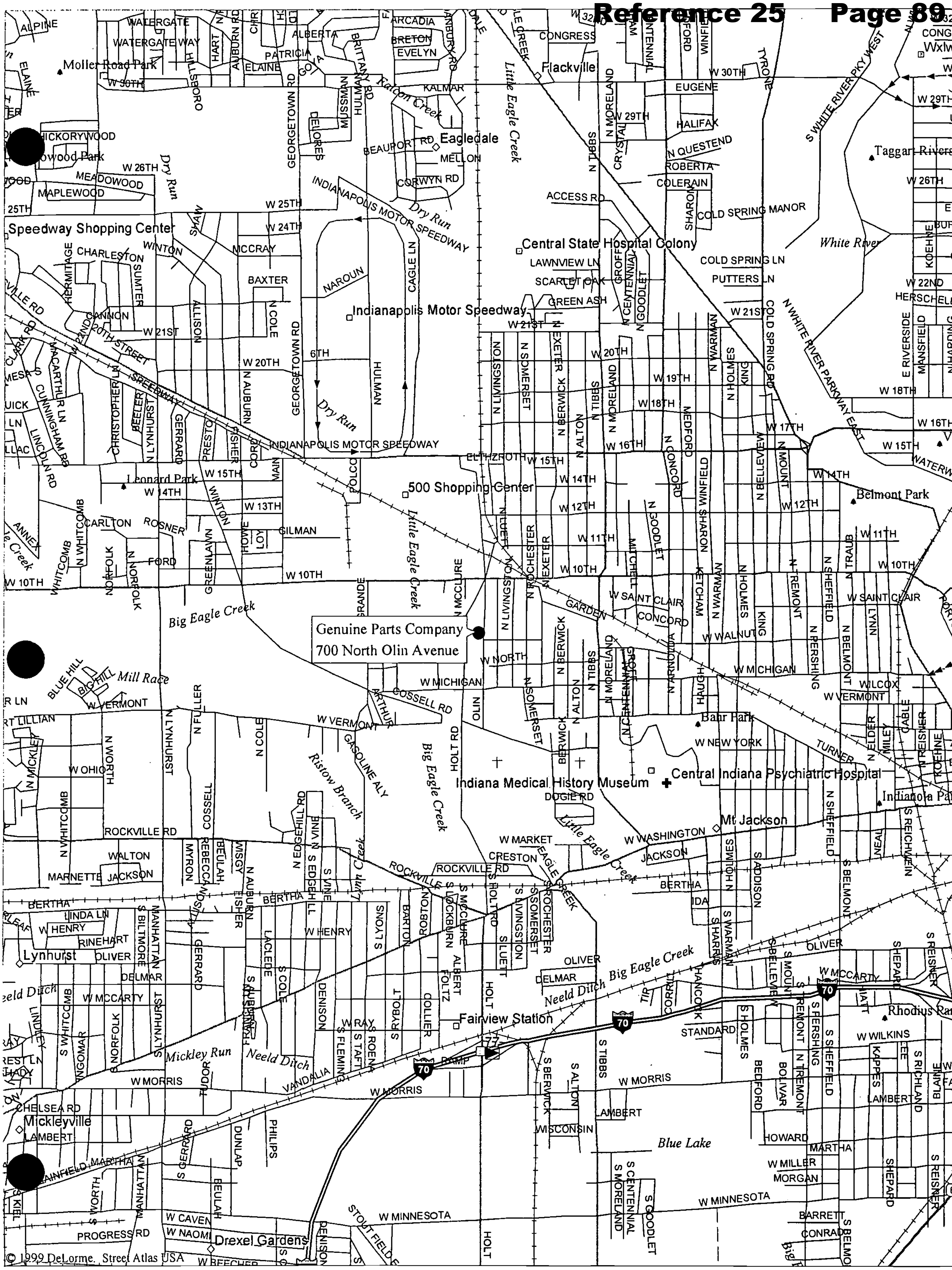
EARTH EXPLORATION

WELL ABANDONMENT SUMMARY

Project: Genuine Parts
Location: Indianapolis, Indiana
Client: KERAMIDA Environmental, Inc.
Driller: Bernie Judy and Andrew Carpenter
EEI Project No.: 1-06-292

Date	Well No.	Casing & Screen Diameter/Type	Screen Length (ft)	Screen Slot Size	Casing Length (ft)	Total Depth of Well (ft)	Total Grout Footage (ft)
8-21-06	SVE-1	2" I.D. Schedule 40 PVC	10	0.010	8.5	18.5	16.5
8-21-06	SVE-2	2" I.D. Schedule 40 PVC	10	0.010	10.4	20.4	18.4
8-21-06	SVE-3	2" I.D. Schedule 40 PVC	10	0.010	9.75	19.75	17.75
8-21-06	SVE-4	2" I.D. Schedule 40 PVC	10	0.010	9.7	19.7	17.7
8-21-06	SVE-5	2" I.D. Schedule 40 PVC	10	0.010	8.4	18.4	16.4
8-29-06	SVE-6	2" I.D. Schedule 40 PVC	10	0.020	5.0	15.0	13.0
8-29-06	SVE-7	2" I.D. Schedule 40 PVC	10	0.020	9.0	19.0	17.0
8-21-06	SVE-28S	2" I.D. Schedule 40 PVC	4.5	0.010	1.0	5.5	5.0
8-21-06	SVE-28D	2" I.D. Schedule 40 PVC	5	0.010	6.5	11.5	11.0
8-21-06	SVE-29S	2" I.D. Schedule 40 PVC	4	0.010	1.2	5.2	5.0
8-21-06	SVE-29D	2" I.D. Schedule 40 PVC	4	0.010	6.3	10.3	10.0
8-21-06	SVE-31S	2" I.D. Schedule 40 PVC	4	0.010	1.4	5.4	5.0
8-21-06	SVE-31D	2" I.D. Schedule 40 PVC	4	0.010	1.6	10.6	10.0
8-29-06	SVE-32S	2" I.D. Schedule 40 PVC	4	0.020	1.0	5.0	5.0
8-29-06	SVE-32D	2" I.D. Schedule 40 PVC	4	0.020	6.4	10.4	10.0
8-21-06	MW-147A*	2" I.D. Schedule 40 PVC	10	0.010	17.95	27.95	25.95
9-1-06	MW-148	2" I.D. Stainless steel	10	0.010	13.5	23.5	21.5
8-21-06	MW-132*	2" I.D. Stainless steel	10	0.010	10.3	20.3	18.3

Depths are approximate.
* - Boring logs not available.



Genuine Parts Company
700 North Olin Avenue
Moller Road Park
Flackville
Eagledale
Speedway Shopping Center
Central State Hospital Colony
Indianapolis Motor Speedway
500 Shopping Center
Leonard Park
Belmont Park
Bahr Park
Indiana Medical History Museum
Central Indiana Psychiatric Hospital
Mt Jackson
Lynhurst
Fairview Station
Mickleyville
Drexel Gardens
Blue Lake
Little Eagle Creek
Big Eagle Creek
Dry Run
Mill Race
Ristow Branch
Lynn Creek
Neeld Ditch
Mickley Run
White River
INDIANAPOLIS MOTOR SPEEDWAY
W 10TH
W MICHIGAN
W WASHINGTON
ROCKVILLE RD
W MORRIS
W MINNESOTA
N TIBBS
HOLT RD
OLIN
70
© 1999 DeLorme. Street Atlas USA

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-1

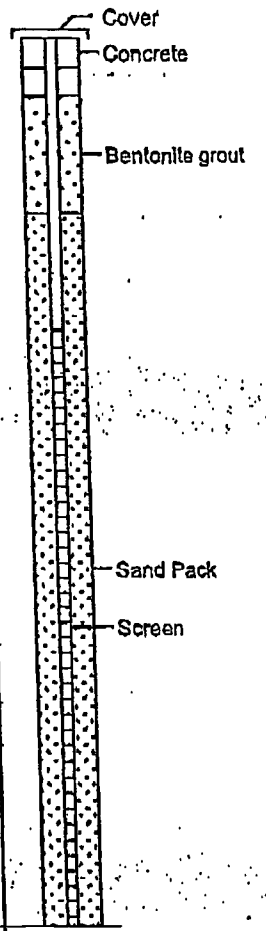
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 1649949.24
Date Drilled	: 5/3/00	Easting	: 170414.68
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10			Fine SAND, very moist, gray, solvent odor	6	NA	NA		
12			Blind Drill	7	NA	NA		
14				8	NA	NA		
16				9	NA	NA		
18			Fine to medium SAND with scattered gravel, gray	10	NA	NA		
20								
22								

Well: SVE-1
Elev.: 712.62



10-14-2002 G:\CLIENTS\GIGENUIN~1\2829EG~1.THR\SOILBO~2\REMEDI~1\SVE-1.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-2

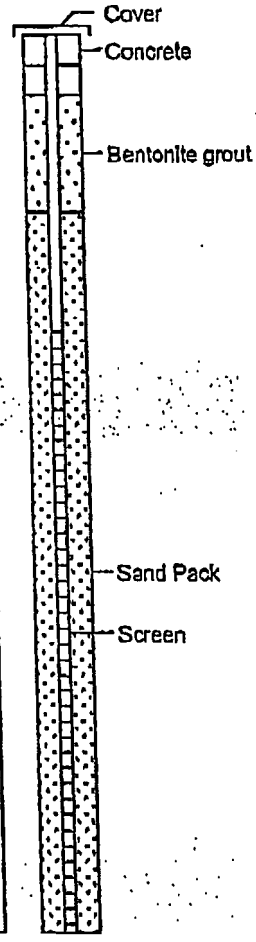
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 1649944.82
Date Drilled	: 5/3/00	Easting	: 170438.54
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10				6	NA	NA		
12				7	NA	NA		
14								
16								
18								
20								
22								

Well: SVE-2
Elev.: 712.76



10-11-2002 G:\CLIENTS\GIGENUIN-112829EG-1.THR\SOILBO~2\REMEDI~1\SVE-2.BOR

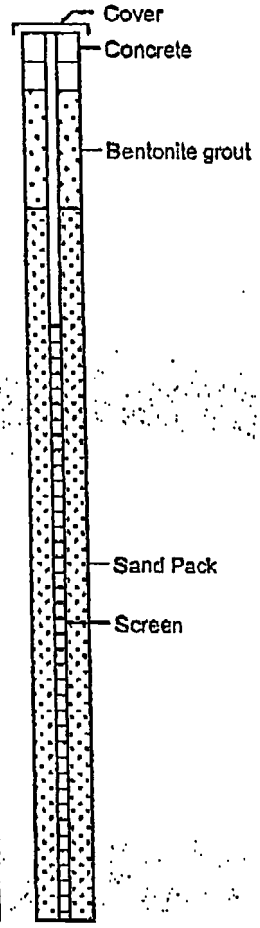
KERAMIDA Environmental, Inc.	LOG OF BORING SVE-3 (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 164911.24
Date Drilled	: 5/3/00	Easting	: 170446.33
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10				6	NA	NA		
12				7	NA	NA		
14								
16								
18								
20								
22								

Well: SVE-3
Elev.: 712.14



10-11-2002 G:\CLIENTS\GIGENUIN-12829EG-1.TRN\SOILBO-2\REMEDI-1\SVE-3.BOR

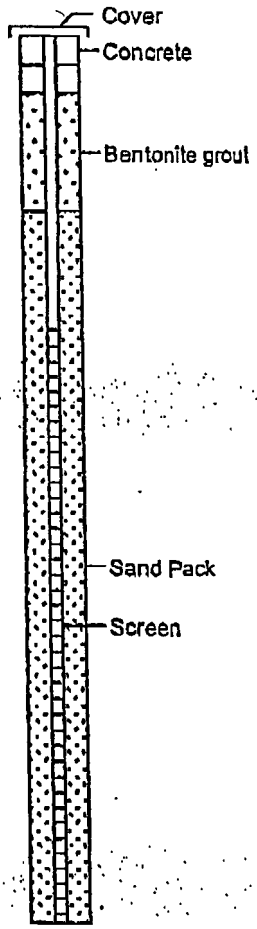
KERAMIDA Environmental, Inc.	LOG OF BORING SVE-4 (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 1849908.69
Date Drilled	: 5/2/00	Easting	: 170410.38
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10				6	NA	NA		
12				7	NA	NA		
14								
16								
18								
20								
22								

Well: SVE-4
Elev.: 712.31



10-11-2002 G:\CLIENTS\GENUIN~1\2829EG~1.THR\SOILBO~2\REMEDI~1\SVE-4.BOR

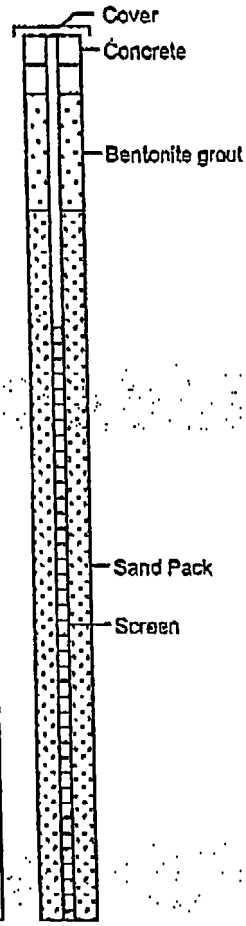
KERAMIDA Environmental, Inc.	LOG OF BORING SVE-5 (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 1649881.80
Date Drilled	: 5/2/00	Easting	: 170396.03
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10				6	NA	NA		
12				7	NA	NA		
14								
16								
18								
20								
22								

Well: SVE-5
Elev.: 711.86



10-11-2002 G:\CLIENTS\GGENUIN-1\2829EG-1.THR\SOILBO~2\RENEDI~1\SVE-5.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-6

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 1649883.33
Date Drilled	: 5/2/00	Easting	: 170423.61
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Well: SVE-6
Elev.: 712.25

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Silty CLAY, gray	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10				6	NA	NA		
12			Sandy Silty CLAY, gray	7	NA	NA		
14			Fine SAND, wet	8	NA	NA		
16				9	NA	NA		
18			Same as above, scattered gravel	10	NA	NA		
20								
22								

Cover
Concrete
Bentonite grout
Sand Pack
Screen

G:\CLIENTS\GENUIN~1\2829EG~1.THR\SOILBO~2\REMEDI~1\SVE-6.BOR
10-11-2002

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-7

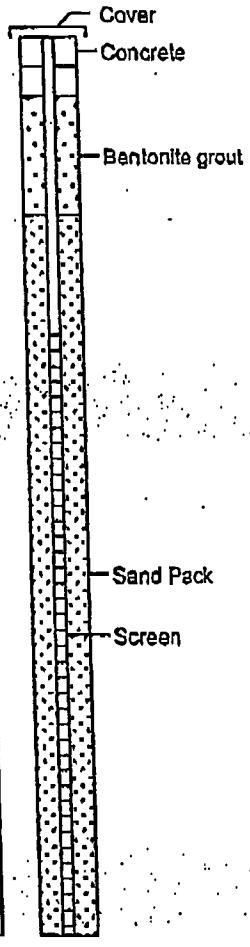
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E	Northing	: 1649884.49
Date Drilled	: 5/3/00	Easting	: 170457.31
Drilling Method	: HSA		
Geologist/Tech	: S. Cobb		
Drilling Co.	: Earth Ex.		

Depth In feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1	NA	NA		
2				2	NA	NA		
4				3	NA	NA		
6				4	NA	NA		
8				5	NA	NA		
10			Fine SAND, gray	6	NA	NA		
12			Blind Drill	7	NA	NA		
14								
16								
18								
20								
22								

Well: SVE-7
Elev.: 711.80

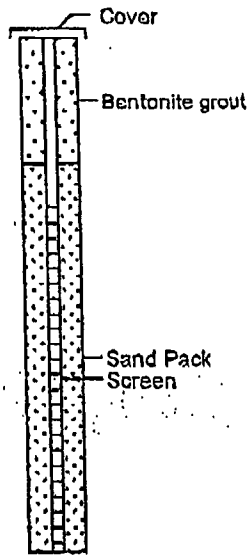


10-14-2002 G:\CLIENTS\GG\GENUIN~1\2829EG~1.TIN\SOILEG~2\KEMICH~1\SVE-7.HOR

KERAMIDA Environmental, Inc.	LOG OF BORING SVE-28S (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana KERAMIDA Project No. 2829E.	Project ID : 2829E Date Drilled : 8/25/03 Drilling Method : HSA Geologist/Tech : S. Cobb Drilling Co. : Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
1								
2				2		NA		
3								
4				3		NA		
5								
6								
10								
15								

Well: SVE-28S
Elev.:



11-02-2003 G:\CLIENTS\GENUIN~1\2829EG~1.THR\SOILBO~2\NEWSVE~1\SVE-28S.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-28D

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/25/03
Drilling Method : HSA
Geologist/Tech : S. Cobb
Drilling Co. : Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
				2		NA		
5				3		NA		
				4		NA		
				5		NA		
10				6				
15								

Well: SVE-28D
Elev.:

Cover
Bentonite grout
Sand Pack
Screen

11-02-2003 G:\CLIENTS\GIGENUIN-112829EG-1.THR\SOILBO-2\ NEW\SVE-1\SVE-28D.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-29S

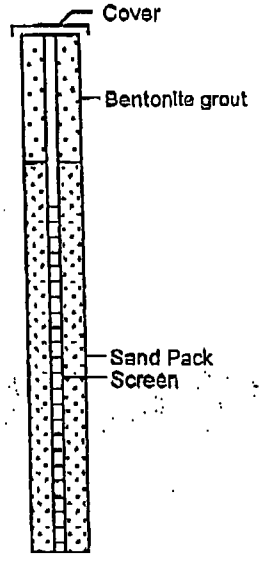
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/4/03
Drilling Method : HSA
Geologist/Tech : S. Cobb
Drilling Co. : Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
1								
2				2		NA		
3								
4				3		NA		
5								
10								
15								

Well: SVE-29S
Elev.:



11-02-2003 G:\CLIENTS\GENUIN~1\2829EG~1.THR\SOILBO~2\NEW\SVE~1\SVE-29S.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-29D

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E
Date Drilled	: 9/4/03
Drilling Method	: HSA
Geologist/Tech	: S. Cobb
Drilling Co.	: Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
				2		NA		
5				3		NA		
				4		NA		
				5		NA		
10				6				
15								

Well: SVE-29D
Elev.:

Cover
Bentonite grout
Sand Pack
Screen

11-02-2003 G:\CLIENTS\GI\GENUIN~1\2829EG~1.THR\SOILBO~2\NEWSVE~1\SVE-29D.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-31S

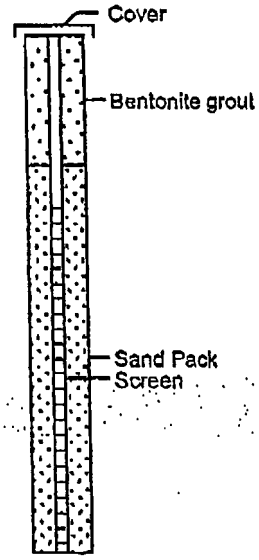
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E
Date Drilled	: 8/25/03
Drilling Method	: HSA
Geologist/Tech	: S. Cobb
Drilling Co.	: Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
1								
2				2		NA		
3								
4				3		NA		
5								
10								
15								

Well: SVE-31S
Elev.:



11-02-2003 G:\CLIENTS\GENUIN~1\2829EG~1.THR\SOILDO~2\NEWSVE~1\SVE-31S.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-31D

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/03
Drilling Method : HSA
Geologist/Tech : S. Cobb
Drilling Co. : Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
				2		NA		
5				3		NA		
				4		NA		
				5		NA		
10				6				
15								

Well: SVE-31D
Elev.:

Cover
Bentonite grout
Sand Pack
Screen

11-02-2003 G:\CLIENTS\GENUINE~1\2829EG~1.THR\SOILBO~2\NEWSVE~1\SVE-31D.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-32S

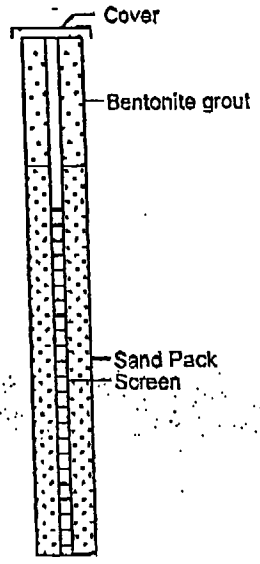
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E
Date Drilled	: 8/26/03
Drilling Method	: HSA
Geologist/Tech	: S. Cobb
Drilling Co.	: Earth Ex.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
				2		NA		
5				3		NA		
10								
15								

Well: SVE-32S
Elev.:



11-02-2003 G:\CLIENTS\GENUIN~1\2829EG~1.THR\SOILBO~2\NEWSVE~1\SVE-32S.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING SVE-32D

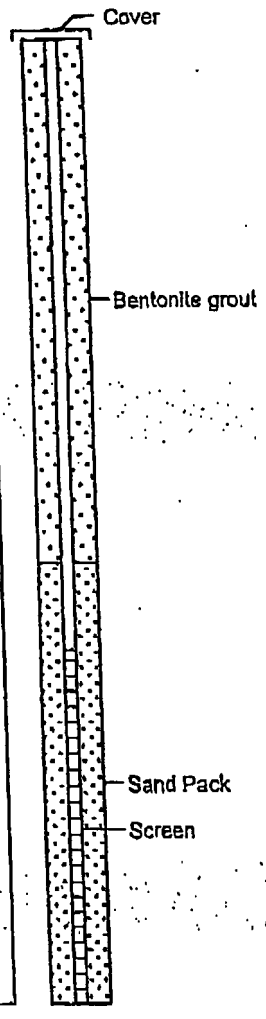
(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Project ID	: 2829E
Date Drilled	: 8/26/03
Drilling Method	: HSA
Geologist/Tech	: S. Cobb
Drilling Co.	: Earth Ex

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS	Water Levels
0			Blind Drill	1		NA		
				2		NA		
5				3		NA		
				4		NA		
				5		NA		
10				6				
15								

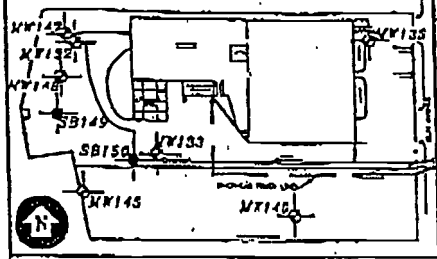
Well: SVE-32D
Elev.:



11-02-2003 G:\CLIENTS\GIGENU\N-1\2829EG-1.THR\SOILBO~2\.HE\WSVE-1\SVE-32D.BOR

151WL13

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 1

WELL NUMBER	SB148/MW148	LOCATION	GM-AGT, PLANT 10
DATE	6-3-93	WEATHER	CLOUDY, 65 °F
LOGGED BY	D. GROUTAGE	DRILLED BY	EARTH EXPLORATION, INC.
DRILLING METHOD	4.25"ID HOLLOW-STEM AUGER	SAMPLING METHOD	SPLIT-SPOON
GRAVEL PACK	SILICA SAND	SEAL	BENTONITE CHIPS

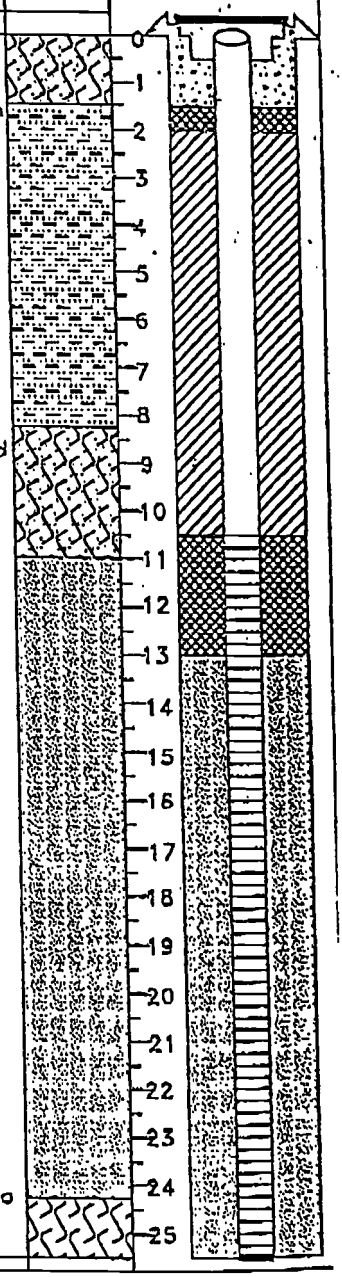
CASING TYPE	SCH 5, 316 S.S.			DIAMETER	2"	LENGTH	15'	HOLE DIA.	8"
SCREEN TYPE	SCH 5, 316 S.S.	SLOT	0.010"	DIAMETER	2"	LENGTH	10'	TOTAL DEPTH	25.5'

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0			0-1.5' SANDY SILT; topsoil brown to dark brown; moist.
		1			1.5'-8.3' SANDY CLAY; brown to orange brown with some silt, moderately plastic, moist.
		2			
		3		3	
	0.0	4	80%	2	
		5		2	
		6		4	
		7			
		8			
		9		2	8.3'-11' SANDY SILT with clay; becoming more sandy with depth. Gray, wet. Becoming saturated at approx. 9.5'.
S01	334	10	100%	2	
		11		4	
		12		3	11'-24.2' SAND. Poorly sorted with gravel, some sand, fine to medium grained laminae 2-3" thick at various intervals; gray.
		13			
		14		8	
	525	15	50%	12	
		16		13	
		17		14	
		18			
		19		7	
	193	20	60%	11	
		21		24	
		22		21	
		23			
		24		8	
	5.2	25	80%	14	24.2'-25.5' SILT with small gravel; gray, damp to dry; hard.
				16	TD = 25.5'
				17	

WELL CONSTRUCTION:
SCREENED: 25.5'-10.5'
SAND PACK: 25.5'-13'
BENTONITE CHIPS: 13'-10.5'
BENTONITE SLURRY: 10.5'-2'
BENTONITE CHIPS: 2'-1'
Finished with flush mount protective well box in CONCRETE.

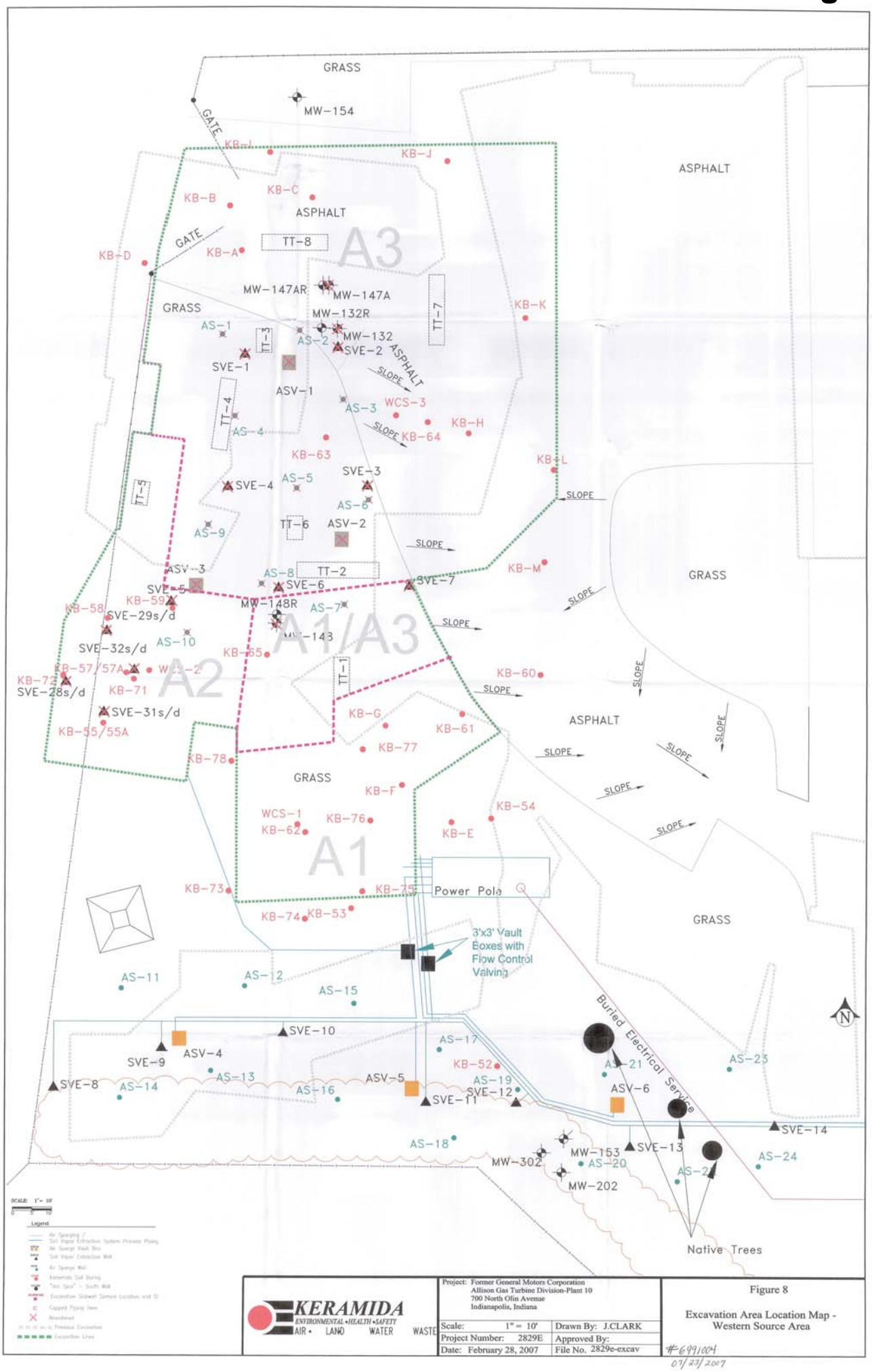
LITHO. PROFILE

WELL COMPLETION



CH151	6-14-93	CK	
UPDATE # 0			

CONCRETE · SAND · BENTONITE CHIPS · BENTONITE SLURRY · SANDY SILT · SANDY CLAY · SILT



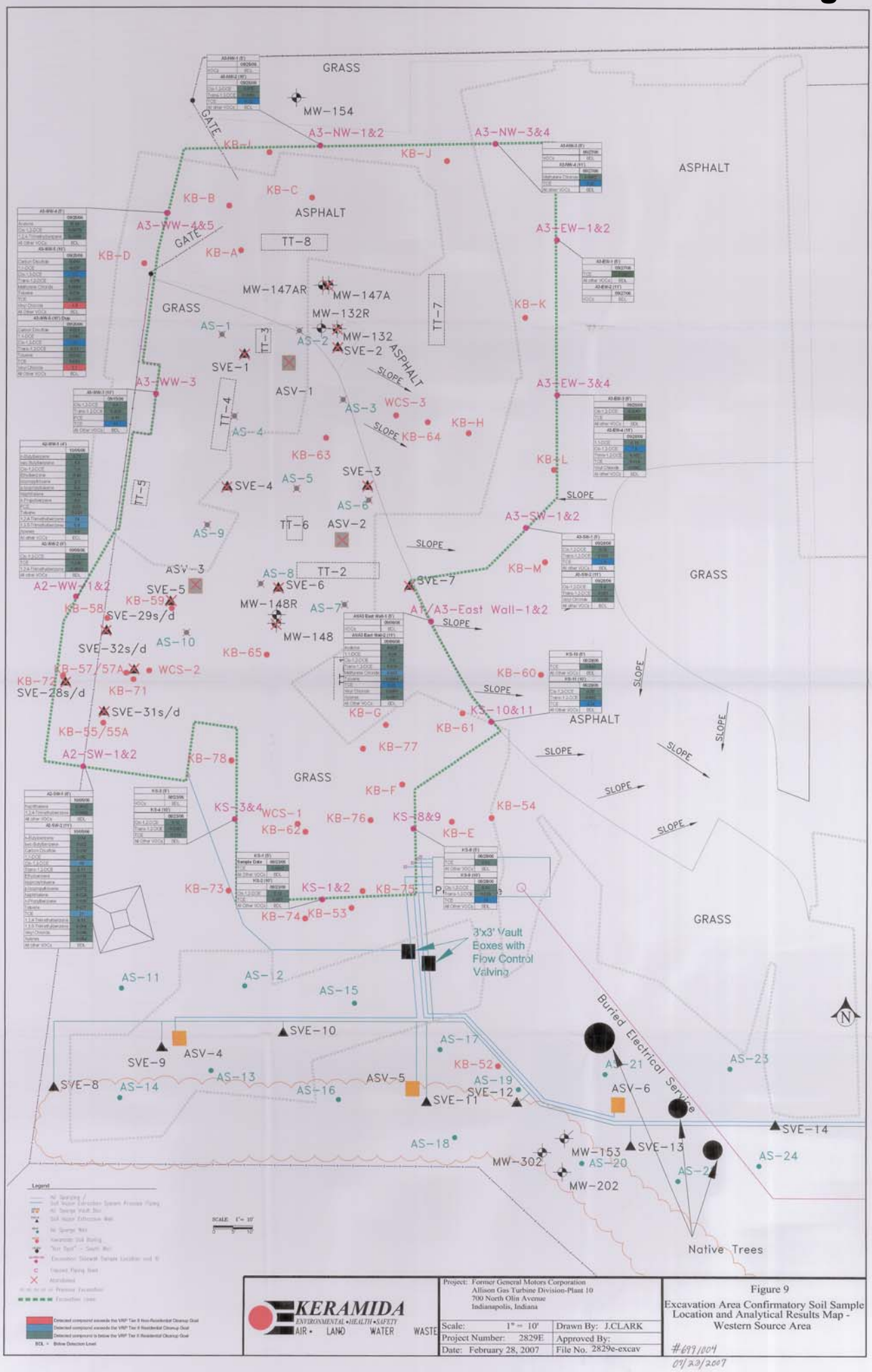
KERAMIDA
ENVIRONMENTAL • HEALTH • SAFETY
AIR • LAND WATER WASTE

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Ofin Avenue Indianapolis, Indiana		
Scale: 1" = 10'	Drawn By: J.CLARK	
Project Number: 2829E	Approved By:	
Date: February 28, 2007	File No. 2829e-excav	

Figure 8

Excavation Area Location Map - Western Source Area

#6991004
07/23/2007


GRASS
MW-154
GATE
A3-NW-1&2
A3-NW-3&4
KB-I
KB-J
ASPHALT
KB-B
KB-C
ASPHALT
A3-WW-4&5
GATE
TT-8
A3-EW-1&2
KB-D
KB-A
MW-147AR
MW-147A
GRASS
MW-132R
TT-7
KB-K
AS-1
AS-2
MW-132
SVE-2
ASPHALT
SVE-1
SLOPE
A3-WW-3
ASV-1
A3-EW-3&4
AS-3
WCS-3
KB-H
TT-4
AS-4
KB-64
KB-63
KB-L
SVE-3
SVE-4
AS-5
SLOPE
AS-6
TT-5
A3-SW-1&2
TT-6
ASV-2
AS-9
SLOPE
ASV-3
AS-8
TT-2
KB-M
GRASS
A2-WW-1&2
SVE-5
SVE-6
SVE-7
KB-59
KB-58
MW-148R
AS-7
A1/A3-East Wall-1&2
SVE-29s/d
SLOPE
AS-10
MW-148
SVE-32s/d
KB-65
KB-60
SLOPE
SLOPE
KB-57/57A
WCS-2
KB-72
SVE-28s/d
KB-71
KB-G
KS-10&11
ASPHALT
SVE-31s/d
KB-61
KB-55/55A
KB-77
SLOPE
SLOPE
A2-SW-1&2
KB-78
SLOPE
SLOPE
GRASS
KB-F
KS-3&4
WCS-1
KB-54
KB-76
KS-8&9
KB-62
KB-E
KB-73
KS-1&2
KB-75
KB-74
KB-53
GRASS
3'x3' Vault
Boxes with
Flow Control
Valving
AS-11
AS-12
AS-15
Buried Electrical Service
SVE-10
AS-17
SVE-9
ASV-4
KB-52
AS-21
AS-23
SVE-8
AS-14
AS-13
AS-16
ASV-5
AS-19
SVE-12
ASV-6
SVE-11
SVE-14
AS-18
MW-153
SVE-13
AS-24
MW-302
AS-20
AS-22
MW-202
Native Trees
N
Legend
SCALE: 1"= 10'
KERAMIDA
ENVIRONMENTAL • HEALTH • SAFETY
AIR • LAND WATER WASTE
Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana
Scale: 1" = 10' Drawn By: J.CLARK
Project Number: 2829E Approved By:
Date: February 28, 2007 File No. 2829e-excav
Figure 9
Excavation Area Confirmatory Soil Sample Location and Analytical Results Map - Western Source Area
#699/1004
09/23/2007